

APPENDIX ONE

EPA'S NINE KEY ELEMENTS FOR STATE NPS MANAGEMENT PROGRAM

1. Provide explicit short and long term goals and strategies.
2. Provide strong collaborative partnerships among state, federal, local, tribal and the private sector.
3. Provide a balanced approach that emphasizes both statewide and watershed efforts.
4. Abate known water quality impairments and prevents pollution of unimpaired waters.
5. Identify impaired and threatened waters and establishes a process to progressively address these.
6. Address all components required by Section 319 of the Clean Water Act and expeditiously restore and protect water resources.
7. Identify Federal lands and activities which are not managed consistently with state nonpoint source program objectives.
8. Provide efficient and effective management and implementation of state program, including financial management.
9. Review, evaluate and update nonpoint source assessment and management program at least every five years.

APPENDIX TWO STATE WATER QUALITY ASSESSMENTS

KANSAS INTEGRATED WATER QUALITY ASSESSMENT 2018

EXECUTIVE SUMMARY

This report, the Kansas Integrated Water Quality Assessment (2018), was prepared by the Kansas Department of Health and Environment (KDHE) in response to water quality reporting requirements contained in sections 303(d), 305(b), and 314(a) of the federal Clean Water Act (CWA). Section 303(d) calls for the development of a list of waterbodies currently failing to meet established water quality standards, whereas sections 305(b) and 314(a) require information concerning the overall status of the state's surface waters and the programs responsible for water quality monitoring and pollution abatement.

The Kansas 2018 list of impaired waters (i.e., 303(d) list) is included as an appendix to this report. This list is based primarily on data collected by the KDHE targeted surface water monitoring programs and secondarily on information obtained from outside sources. For this assessment, watersheds containing targeted stream chemistry and/or stream biological monitoring stations represented the assessment units for flowing waters. Monitored lakes and wetlands represented the assessment units for standing waterbodies. The state's 2018 303(d) list identifies 498 station/pollutant combinations of water quality impairment on lakes, wetlands, and stream systems (watersheds), encompassing 2,437 stream segment/pollutant combinations, and needing the development of Total Maximum Daily Load plans (TMDLs) to address the offending pollutants. The 2018 list also identifies 480 station/pollutant combinations of waters that were previously cited as impaired in prior lists but now meet water quality standards, with 19 of these being new in 2018.

Requirements related to Section 305(b) were addressed, in part, using data obtained through a stream monitoring program implemented in 2006. This program employs a probabilistic survey design to estimate the stream mileage supporting those uses recognized in section 101(a) of the CWA: aquatic life support, food procurement, and contact recreation. The program's target population for monitoring and assessment included all classified streams that contained water during the summer low-flow periods of 2011-2015. Owing largely to climate variation during this assessment window, only about 64% of the state's classified stream mileage was represented in the target population for assessment. Lake and wetland assessments for Section 305(b) as well as Section 314 reporting requirements were addressed using data from the targeted lake and wetland program, which uses a near-census approach in its monitoring.

Monitoring data obtained during this reporting cycle indicated that approximately 16% of the state's designated stream mileage fully supported all three section 101(a) uses, whereas 84% was impaired for one or more uses. Aquatic life, contact recreation, and food procurement uses were supported, respectively, in 33%, 80%, and 66% of the stream miles designated for these uses. The two major causes or observed effects that demonstrated non-support for streams were suboptimal aquatic macroinvertebrate community metrics, which is an indicator of aquatic life support, and mercury in fish tissue, which is an indicator of food procurement use. Presence of

contaminants such as bacteria, metals, and pesticides in water comprised a third category of causes. The most widespread discernible sources responsible for use impairments and/or pollutant loadings were generalized anthropogenic influences (e.g., erosion and sedimentation, atmospheric deposition of contaminants), followed by agriculture (both crop and livestock production), and other sources (including natural sources and unknown sources). Urban influences (both point and nonpoint sources) were less widespread, an unsurprising result given the ratio of urban to rural land use in Kansas.

Approximately 3.5% of the assessed lake acreage fully supported all designated uses, whereas over 96% was impaired for one or more designated uses. Approximately 63% of the assessed lake acreage exhibited no recent change in trophic condition, less than 1% exhibited some improvement in trophic state, and 34% experienced a measurable deterioration in trophic state (with 3% unknown). Approximately 73% of wetland acreage was assessed. Of this population, less than 1% fully supported aquatic life and recreational uses. Major causes of impairment in both lakes and wetlands included nutrient enrichment, siltation and turbidity, and zebra mussel (*Dreissena polymorpha*) infestations; flow alterations and presence of sulfates also affected wetlands. Agriculture, hydromodification, natural sources, and municipal point sources were the primary sources of these impairments.

Kansas experienced some flooding in 2010 followed by significant and extended statewide droughts in 2011-2013; 2014 marked the beginning of drought recovery. The combined effects of these dramatic weather-related events doubtless exacerbated many of the water quality impairments documented in the past decade.

The complete Kansas Integrated Water Quality Assessment Report 2018 is available online at: http://www.kdheks.gov/befs/download/2018_IR_FINAL.pdf

APPENDIX THREE

Total Maximum Daily Loads and 303(d) List of Impaired Waters

Abbreviations

- **Ala** - Alachlor
- **AP** - Aquatic Plants
- **Atr** - Atrazine
- **B** - Boron
- **Be** - Beryllium
- **Bio** - Biological Impairment
- **Cd** - Cadmium
- **Chl** - Chlordane
- **Cl** - Chloride
- **CO** - County
- **Cu** - Copper
- **DO** - Dissolved Oxygen
- **ECB** - E. coli Bacteria
- **Eu** - Eutrophication
- **F** - Fluoride
- **FCB** - Fecal Coliform Bacteria
- **Hg** - Mercury
- **HUC** - Hydrological Unit Code
- **NH3** - Ammonia
- **NO3** - Nitrate
- **Pb** - Lead
- **pH** - Potential Hydrogen
- **Se** - Selenium
- **SFL** - State Fishing Lake
- **Silt** - Siltation
- **SO4** - Sulfate
- **TP** - Total Phosphorus
- **TSS** - Total Suspended Solids
- **WA** - Wildlife Area
- **WMA** - Wildlife Management Area
- **Zn** - Zinc

TMDLs for the Verdigris Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper Verdigris (HUC 11070101)				
CHETOPA CREEK	DO	Medium	SC696	9/30/02

CHETOPA CREEK (FCB)	FCB	Medium	SC696	9/30/02
Subbasin: Fall (HUC 011070102)				
FALL RIVER (FCB)	FCB	High	SC575	9/30/02
Subbasin: Middle Verdigris (HUC 11070103)				
BIG HILL CREEK	FCB	Medium	SC607	9/30/02
BIG HILL CREEK (DO)	DO	Medium	SC607	9/30/02
ONION CREEK	DO	Medium	SC608	9/30/02
PUMPKIN CREEK	DO	Medium	SC606	9/30/02
VERDIGRIS RIVER	FCB	Medium	SC563	9/30/02
VERDIGRIS RIVER (Bio)	Bio	Medium	SB215, SB563	9/30/02
Subbasin: Elk (HUC 11070104)				
ELK RIVER	DO	Medium	SC693	9/30/02
ELK RIVER (FCB)	FCB	Medium	SC693	9/30/02
Subbasin: Caney (HUC 11070105)				

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper Verdigris (HUC 11070101)				
EUREKA CITY LAKE	EU / Silt	Medium	LM040201	9/30/09
TORONTO LAKE	EU/DO/Silt	High	LM024001	9/30/09
WILSON CO SFL	EU	Medium	LM015101	9/30/02
WILSON CO SFL	DO	Medium	LM015101	9/30/02
WOODSON WA	DO	Medium	LM011841	9/30/02
WOODSON WA	EU	Medium	LM011841	9/30/02
WOODSON WA (FCB)	FCB	Low	LM011841	9/30/02
Subbasin: Fall (HUC 11070102)				
FALL RIVER LAKE	EU/DO/Silt	High	LM023001	9/30/09
Subbasin: Middle Verdigris (HUC 11070103)				
BIG HILL LAKE	EU	High	LM031001	9/30/09

CHERRYVALE CITY LAKE	EU	Low	LM071601	9/30/02
LA CLAIRE LAKE	EU	Low	LM072901	9/30/02
MONTGOMERY CO SFL	pH	Medium	LM010701	9/30/02
MONTGOMERY CO SFL	EU	Medium	LM010701	9/30/02
MONTGOMERY CO SFL	DO	Medium	LM010701	9/30/02
Subbasin: Elk (HUC 11070104)				
ELK CITY LAKE	EU/Silt	Medium	LM025001	9/30/09

TMDLs for the Walnut Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper Walnut (11030017)				
UPPER WALNUT RIVER	FCB	High	SC279	9/30/02
WHITEWATER RIVER	FCB	High	SC038	9/30/02
WALNUT RIVER (Butler Co.)	Bio	Medium	SB106	9/30/02
WALNUT RIVER (TP)	TP	High	SC106, SC279, SC744	8/19/15
WALNUT RIVER (DO)	DO	High	SC279	8/19/15
WALNUT RIVER (SO₄)	SO ₄	Low	SC106, SC704, SC038	9/30/02
WHITEWATER RIVER (TP)	TP	High	SC038	8/19/2015
Subbasin: Lower Walnut (11030018)				
LITTLE WALNUT RIVER	FCB	High	SC655	9/30/02
ROCK CREEK	FCB	High	SC654	9/30/02
WALNUT RIVER (Cowley Co.)	Bio	Medium	SC106, SB315, SC532	9/30/02
EIGHTMILE CREEK (TP)	TP	High	SC704	9/30/2015
EIGHTMILE CREEK (DO)	DO	High	SC704	9/30/2015

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper Walnut (11030017)				
HARVEY CO EAST LAKE	Eutrophication	Medium	LM052001	9/30/02
AUGUSTA SANTA FE LAKE	Eutrophication	Medium	LM041601	9/30/02
AUGUSTA SANTA FE LAKE	DO	Medium	LM041601	9/30/02
AUGUSTA SANTA FE LAKE (Silt)	Silt	Medium	LM041601	9/30/02
EL DORADO LAKE	Eutrophication	High	LM033001	9/30/02
EL DORADO LAKE (Silt)	Silt	High	LM033001	9/30/02
AUGUSTA CITY LAKE	Eutrophication	High	LM040001	9/30/2015
Subbasin: Lower Walnut (11030018)				
WINFIELD CITY LAKE	Eutrophication	High	LM050801	9/30/09
WINFIELD PARK LAGOON	Eutrophication	Low	LM072301	9/30/02
BUTLER CO SFLWA	Eutrophication	Medium	LM049401	9/30/02

TMDLs for the Cimarron River Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper Cimarron (HUC 11040006)				
CIMARRON RIVER	CI	Low	SC222	9/11/00
CIMARRON RIVER (pH)	pH	Low	SC222	9/11/00
Subbasin: Crooked (HUC 11040007)				
CROOKED CREEK (CI)	CI	Low	SC600	9/11/00
Subbasin: Upper Cimarron - Bluff (HUC 11040008)				

CAVALRY CREEK (FCB)	FCB	Medium	SC624	8/9/00
CIMARRON RIVER (CI)	CI	Low	SC592	9/11/00

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper Cimarron (HUC 11040006)				
RUSSELL LAKE (E)	E	Low	LM060101	9/11/00
Subbasin: Crooked (HUC 11040007)				
LAKE MEADE SP (AP)	AP	High	LM010601	9/11/00
LAKE MEADE SP (DO)	DO	High	LM010601	9/11/00
LAKE MEADE SP (E)	E	High	LM010601	9/11/00
LAKE MEADE SP (pH)	pH	High	LM010601	9/11/00
Subbasin: Upper Cimarron-Bluff (HUC 11040008)				
BIG BASIN WA (E)	E	High	LM060001	9/11/00
LAKE COLDWATER	E	Low	LM042601	3/22/2013

TMDLs for the Lower Arkansas River Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Rattlesnake (HUC 11030009)				
Subbasin: Gar-Peace (HUC 11030010)				
ARKANSAS RIVER BELOW HUTCHINSON (Revision)	Bio	Medium	SB283, SC524, SC287	3/10/2014
PEACE CR NEAR STERLING AND SALT CR NEAR HUTCHINSON	pH	Medium	SC658, SC659	7/27/01
ARKANSAS RIVER-HUTCH TO MAIZE	CI	Medium	SC523, SC524, SC283, SC536	9/20/06

PEACE CREEK	FCB	Medium	SC658	7/27/01
PEACE CREEK (CI)	CI	Low	SC658	7/27/01
Subbasin: Cow (HUC 11030011)				
LITTLE COW CREEK NEAR LYONS	DO	High	SC656	9/11/00
COW CREEK (CI)	CI	Medium	SC657, SC522, SC656	9/20/06
COW CREEK (FCB)	FCB	High	SC656, SC657, SC522, SC287	8/9/00
LITTLE COW CREEK	NH3 & NO23	Medium	SC522, SC656, SC657	8/3/07
Subbasin: Little Arkansas (HUC 11030012)				
LITTLE ARKANSAS RIVER	Atr	Cat 4b	SC246, SC282, SC728, SC534, SC535, SC729	12/18/08
LITTLE ARKANSAS RIVER (Sediment)	Sediment (Biology)	High	SB282	9/11/00
LITTLE ARKANSAS RIVER (Bio)	Bio	High	SB282	9/11/00
LITTLE ARKANSAS RIVER (CI)	CI	Medium	SC246	9/20/06
LITTLE ARKANSAS RIVER (FCB)	FCB	High	SC282, SC534, SC535	8/9/00
LITTLE ARKANSAS RIVER (TSS)	TSS	High	SC246, SC282, SC533, SC703, SC705, SC728	8/04/2014
SAND CREEK	NO23	High	SC535	8/3/07
SAND CREEK (DO)	DO	Medium	SC535	8/3/07
SAND CREEK (TP)	TP	High	SC535	3/10/2014
TURKEY CREEK (TP)	TP	High	SC533	3/10/2014
TURKEY CREEK (CI)	CI	Medium	SC533	9/20/06
TURKEY CREEK (DO)	DO	High	SC533	9/11/00
Subbasin: Middle Arkansas - Slate (HUC 11030013)				
ARKANSAS RIVER	FCB	High	SC281	8/9/00

SLATE CREEK NEAR WELLINGTON	SO4	Low	SC528	7/27/01
ARKANSAS RIVER BELOW WICHITA	Bio	Medium	SB281	7/27/01
ARKANSAS RIVER- DERBY TO ARK CITY	CI	Medium	SC218, SC527	9/20/06
ARKANSAS RIVER-MAIZE TO DERBY	CI	Medium	SC281	9/20/06
COWSKIN CREEK (FCB)	FCB	High	SC288, SC702	8/9/00
COWSKIN CREEK (Bio)	Bio	High	SC288, SC702, SB346	9/28/07
ARKANSAS RIVER NEAR ARKANSAS CITY	Bio	Medium	SB218	7/27/01
SLATE CREEK	ECB	High	SC528	3/28/2013
Subbasin: North Fork Ninnescah (HUC 11030014)				
NINNESCAH RIVER, NORTH FORK	pH	Low	SC525	7/27/01
Subbasin: South Fork Ninnescah (HUC 11030015)				
Subbasin: Kaw Lake (HUC 11060001)				
SILVER CREEK	DO	Medium	SC706	9/11/00
GROUSE CREEK WATERSHED	TP, TSS	High	SC531, SC706, SC761	KDHE Approved 1/25/2013
Subbasin: Upper Salt Fork Arkansas (HUC 11060002)				
ARKANSAS RIVER, SALT FORK (CI)	CI	Medium	SC591	7/27/01
MULE CREEK (FCB)	FCB	Medium	SC622	7/27/01
Subbasin: Medicine Lodge (HUC 11060003)				
MEDICINE LODGE RIVER	FCB	High	SC588	8/9/00
Subbasin: Lower Salt Fork Arkansas (HUC 11060004)				
Subbasin: Chikaskia (HUC 11060005)				
BLUFF CREEK (Se)	Se	Medium	SC618	7/27/01
BLUFF CREEK (FCB)	FCB	High	SC530, SC618	8/9/00
FALL CREEK (FCB)	FCB	High	Modeled	8/9/00

LOWER CHIKASKIA RIVER	ECB	High	SC529	3/12/2013
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Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Rattlesnake (HUC 11030009)				
QUIVIRA BIG SALT MARSH	EU	High	LM050601	8/22/2013
QUIVIRA BIG SALT MARSH	SILT	High	LM050601	8/22/2013
QUIVIRA BIG SALT MARSH (CL)	CL	High	LM050601	8/9/2013
QUIVIRA BIG SALT MARSH (pH)	pH	High	LM050601	9/11/00
QUIVIRA LITTLE SALT MARSH	EU	High	LM050201	8/22/2013
QUIVIRA LITTLE SALT MARSH	SILT	High	LM050201	8/22/2013
QUIVIRA LITTLE SALT MARSH (CL)	CL	High	LM050201	8/9/2013
QUIVIRA LITTLE SALT MARSH (pH)	pH	High	LM050201	9/11/00
Subbasin: Gar-Peace (HUC 11030010)				
CAREY PARK LAKE	EU	Low	LM063001	11/13/00
Subbasin: Cow (HUC 11030011)				
CHEYENNE BOTTOMS WA	DO	High	LM050401	9/11/00
CHEYENNE BOTTOMS WA	EU	High	LM050401	9/11/00
Subbasin: Little Arkansas (HUC 11030012)				
DILLON PARK LAKES (2)	pH	Medium	LM063101	11/13/00
DILLON PARK LAKES (2)	EU	Medium	LM063101	11/13/00
HARVEY CO CAMP HAWK	Silt	Low	LM063401	11/13/00
HARVEY CO CAMP HAWK (EU)	EU	Low	LM063401	11/13/00

HARVEY CO WEST LAKE	EU	Low	LM049001	11/13/00
MINGENBACK LAKE	DO	Medium	LM064701	11/13/00
MINGENBACK LAKE	EU	Medium	LM064701	11/13/00
NEWTON CITY PARK LAKE	EU	High	LM064201	9/11/00
Subbasin: Middle Arkansas - Slate (HUC 11030013)				
CADILLAC LAKE (PRACHT WETLAND)	EU	Low	LM054101	11/13/00
HORSESHOE LAKE	EU	Low	LM063501	11/13/00
KID'S POND	EU	Low	LM063601	11/13/00
SLATE CR WA	CI	Medium	LM014201	11/13/00
SLATE CR WA (pH)	pH	Medium	LM014201	11/13/00
SLATE CR WA (SO4)	SO4	Low	LM014201	11/13/00
SLATE CR WA (Silt)	Silt	Medium	LM014201	11/13/00
SLATE CR WA (EU)	EU	Medium	LM014201	11/13/00
WATSON PARK	EU	Low	LM064401	11/13/00
Subbasin: North Fork Ninnescah (HUC 11030014)				
CHENEY LAKE	EU	High	LM017001	5/4/17
CHENEY LAKE (Silt)	Silt	High	LM017001	8/9/00
Subbasin: South Fork Ninnescah (HUC 11030015)				
KINGMAN CO SFL	pH	Medium	LM010401	11/13/00
KINGMAN CO SFL	AP	Medium	LM010401	11/13/00
KINGMAN CO SFL	DO	Medium	LM010401	11/13/00
PRATT COUNTY LAKE	EU	High	LM064001	9/11/00
Subbasin: Ninnescah (HUC 11030016)				
LAKE AFTON	EU	High	LM049201	9/11/00
Subbasin: Kaw Lake (HUC 11060001)				
COWLEY CO SFL	Se	Low	LM013401	11/13/00
Subbasin: Medicine Lodge (HUC 11060003)				
BARBER CO SFL/WA	DO	Low	LM013101	11/13/00

Subbasin: Chikaskia (HUC 11060005)				
ISABEL WA	EU	Low	LM014301	11/13/00
ISABEL WA	pH	Low	LM014301	11/13/00
LAKE ANTHONY	EU, Silt, pH, DO	High	LM048801	8/03/07
WELLINGTON OLD CITY LAKE	Silt	Medium	LM042201	11/13/00
WELLINGTON OLD CITY LAKE (Se)	Se	Low	LM042201	11/13/00

TMDLs for the Upper Arkansas River Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Midle Arkansas-Lake McKinney (HUC 11030001)				
ARKANSAS RIVER	Boron	Medium	SC223, SC598, SC286	9/11/00
ARKANSAS RIVER (Sulf)	Sulf	Medium	SC223, SC598, SC286	9/11/00
ARKANSAS RIVER NEAR GARDEN CITY	FCB	High	SC286	8/9/00
ARKANSAS RIVER (pH)	pH	Medium	SC286, SC598	9/11/00
ARKANSAS RIVER (Selenium)	Selenium	High	SC223, SC598, SC286	2/28/08
Subbasin: Arkansas-Dodge City (HUC 11030003)				
ARKANSAS RIVER (GARDEN CITY TO FORD)	FCB	High	SC594	8/9/00
ARKANSAS RIVER (Sulf-med)	Sulf	Medium	SC286, SC594, SC587	9/11/00
Subbasin: Arkansas - Pickerel (HUC 11030004)				
ARKANSAS RIVER (FORD TO KINSLEY)	FCB	High	SC587	8/9/00

ARKANSAS RIVER (KINSLEY TO DUNDEE)	FCB	High	SC584	8/9/00
ARKANSAS RIVER (Bio)	Bio	Medium	SB284	9/11/00
ARKANSAS RIVER (Fluor)	Fluor	Medium	SC587	9/11/00
ARKANSAS RIVER (Sulf-medium)	Sulf	Medium	SC584, SC284	9/11/00
ARKANSAS RIVER NEAR GREAT BEND	FCB	High	SC284	8/9/00
MULBERRY CREEK	DO	Low	SC700	5/31/2013
Subbasin: Pawnee (HUC 11030005)				
PAWNEE RIVER & BUCKNER CREEK	FCB	High	SC586	8/9/00
PAWNEE RIVER	DO	Low	SC585, SC586	3/12/2013
PAWNEE RIVER (ATZ)	ATZ	Medium	SC585, SC586	5/21/2013
PAWNEE RIVER (Pb)	Pb	Low	SC585, SC586	6/13/2013
PAWNEE RIVER (Cu)	Cu	Low	SC585, SC586	6/13/2013
Subbasin: Upper Walnut Cr (HUC 11030007)				
WALNUT CREEK, NORTH FORK (Sulf)	Sulf	Low	SC595, SC596, SC597	9/11/00
WALNUT CREEK	DO	Low	SC596, SC597	3/12/2013
WALNUT CREEK (SE)	SE	Low	SC595, SC596, SC597	5/7/2013

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Middle Arkansas-Lake McKinney (HUC 11030001)				
HAMILTON CO SFL	AP	Low	LM016101	9/11/00
HAMILTON CO SFL	E	Low	LM016101	9/11/00
HAMILTON CO SFL (Cl, SO4, SILT)	Cl, SO4, SILT	Low	LM016101	5/31/2013
HAMILTON WA	Cl, SO4, SILT	Low	LM016141	5/31/2013
HAMILTON WA (DO)	DO	Low	LM016141	9/11/00

HAMILTON WA (E)	E	Low	LM016141	9/11/00
Subbasin: Arkansas-Dodge City (HUC 11030003)				
LAKE CHARLES	E	Low	LM071101	12/12/2012
Subbasin: Pawnee (HUC 11030005)				
CONCANNON SFL	E	Low	LM053601	1/29/2013
Subbasin: Buckner (HUC 11030006)				
JETMORE LAKE	AP	Low	LM073901	8/9/00
JETMORE LAKE (E)	E	Low	LM073901	6/3/2013
FORD CO LAKE	DO	High	LM070801	9/11/00
FORD CO LAKE	E	High	LM070801	9/11/00
FORD CO LAKE	pH	High	LM070801	9/11/00
Subbasin: Lower Walnut Cr (HUC 11030008)				
STONE LAKE	E	Low	LM074001	9/11/00
MEMORIAL PARK LAKE	E	Low	LM071501	5/21/2013

TMDLs for the Marais des Cygnes River Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper Marais Des Cygnes (HUC 10290101)				
DRAGOON CREEK	DO	High	SC577, SC687	8/28/01
HUNDRED AND TEN MILE CREEK	DO	High	SC633	8/28/01
MARAIS DES CYGNES RIVER (FCB)	FCB	High	SC270	8/28/01
MARAIS DES CYGNES RIVER/142 MILE CREEK	DO	High	SC579	8/28/01

MARAIS DES CYGNES RIVER/142 MILE CREEK (FCB)	FCB	High	SC579	8/28/01
OTTAWA CREEK	DO	High	SC616	8/28/01
OTTAWA CREEK (Pb)	Pb	Low	SC616	12/5/2013
POTTAWATOMIE CREEK	DO	High	SC556	8/28/01
SALT CREEK	Atr	Low	SC578	12/17/2013
SALT CREEK (DO)	DO	Low	SC578	12/17/2013
Subbasin: Lower Marais Des Cygnes (HUC 10290102)				
BIG SUGAR CREEK	DO	Medium	SC558	2/28/08
MIDDLE CREEK	DO	High	SC697	8/28/01
Subbasin: Little Osage (HUC 10290103)				
LITTLE OSAGE RIVER	FCB	Medium	SC207	8/28/01
Subbasin: Marmaton (HUC 10290104)				
DRYWOOD CREEK. W. FORK	DO	Low	SC617	2/28/08
MARMATON RIVER	DO	High	SC208, SC559	8/28/01
MARMATON RIVER (Bio)	Bio	High	SC208, SB325	8/28/01

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper Marais Des Cygnes (HUC 10290101)				
CEDAR CREEK LAKE	EU	High	LM040701	12/17/2013
CEDAR CREEK LAKE	Silt	High	LM040701	12/17/2013
CRYSTAL LAKE	EU	Medium	LM064901	8/28/01
LEBO CITY PARK LAKE	EU	Low	LM065601	8/28/01
OSAGE CITY RES	EU	Low	LM066101	8/28/01
POMONA LAKE	Silt	High	LM028001	9/29/2014
POMONA LAKE (EU)	EU	High	LM028001	9/29/2014
SPRING CREEK PARK LAKE	EU	Low	LM066801	8/28/01

SPRING CREEK PARK LAKE	AP	Low	LM066801	8/28/01
Subbasin: Lower Marais Des Cygnes (HUC 10290102)				
EDGERTON CITY LAKE	EU	Medium	LM065001	8/28/01
EDGERTON CITY LAKE (Atr)	Atr	Medium	LM065001	8/28/01
HILLSDALE LAKE	EU	High	LM035001, LM035002, LM035003	9/29/2014
LOUISBURG SF LAKE	EU	High	LM043801	2/28/08
MARAIS DES CYGNES WMA	DO	High	LM053201	8/28/01
MARAIS DES CYGNES WMA (Silt)	Silt	High	LM053201	8/28/01
MARAIS DES CYGNES WMA	pH	High	LM053201	8/28/01
MARAIS DES CYGNES WMA	EU	High	LM053201	8/28/01
MIAMI CO SFL/ WA	pH	Medium	LM043601	8/28/01
MIAMI CO SFL/ WA	EU	Medium	LM043601	8/28/01
MOUND CITY LAKE	pH	Medium	LM051401	8/28/01
MOUND CITY LAKE	EU	Medium	LM051401	8/28/01
MOUND CITY LAKE	DO	Medium	LM051401	8/28/01
MOUND CITY LAKE	AP	Medium	LM051401	8/28/01
PLEASANTON RESERVOIR	EU	High	LM044201	10/29/2013
Subbasin: Little Osage (HUC 10290103)				
PRESCOTT CITY LAKE	EU	Low	LM066601	8/28/01
Subbasin: Marmaton (HUC 10290104)				
BOURBON CNTY SF LAKE	EU, DO, pH	Medium	LM013301	2/28/08
BRONSON CITY LAKE	EU	Medium	LM046201	8/28/01
ELM CREEK LAKE	EU	Low	LM044801	8/28/01
LAKE CRAWFORD	EU	High	LM011101	2/28/08

ROCK CREEK LAKE	EU	High	LM045201	2/28/08
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TMDLs for the Neosho Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Neosho Headwaters (HUC 11070201)				
ALLEN CREEK	Cu	Low	SC628	2/25/05
ALLEN/DOWS CREEK (DO)	DO	Medium	SC628	9/30/02
EAGLE CREEK	DO	High	SC634	9/30/02
EAGLE CREEK (Cu)	Cu	Low	SC634	2/25/05
NEOSHO RIVER	FCB	Medium	SC637	9/30/02
NEOSHO RIVER (PARKERVILLE)	Cu	Low	SC637	2/25/05
NEOSHO RIVER (TP)	TP	High	SC637	6/17/2015
NEOSHO RIVER (NEOSHO RAPIDS)	TP	High	SC273	8/5/2015
Subbasin: Upper Cottonwood (HUC 11070202)				
FRENCH CREEK	DO	Medium	SC676	12/13/02
MUD CREEK	FCB	High	SC691	12/13/02
NORTH COTTONWOOD RIVER	Cu	Low	SC636	2/25/05
COTTONWOOD RIVER (SO₄)	SO ₄	Low	SC635, SC676, SC690, SC627, SC120	12/13/02
Subbasin: Lower Cottonwood (HUC 11070203)				
COTTONWOOD RIVER	FCB	Cat 3	NPDES Permit	12/18/08, Further Evaluate in 2012
FOX CREEK	Bio	Medium	SB718, SC718	1/6/05

SOUTH FORK COTTONWOOD R	Bio	Medium	SB357,SC582	1/6/05
LOWER COTTONWOOD RIVER	TP	High	SC274	8/5/2015
Subbasin: Upper Neosho (HUC 11070204)				
BIG CREEK (LEROY)	Cu	Low	SC615	2/25/05
DEER CREEK	FCB	Medium	SC609	12/13/02
LITTLE TURKEY CREEK	NH3	Cat 3	NPDES Permit	12/18/08, Further Evaluate in 2012
LITTLE TURKEY CREEK	FCB	Cat 3	NPDES Permit	12/18/08, Further Evaluate in 2012
NEOSHO RIVER (CHANUTE)	Cu	Low	SC560	2/25/05
OWL CREEK (Cu)	Cu	Low	SC610	2/25/05
OWL CREEK	NH3	Cat 3	NPDES Permit	12/18/08, Further Evaluate in 2012
TURKEY CREEK	DO	High	SC614	9/30/02
TURKEY CREEK (FCB)	FCB	High	SC614	12/13/02
Subbasin: Middle Neosho (HUC 11070205)				
BACHELOR CREEK (LABETTE)	DO	High	SC698	2/25/05
CANVILLE CREEK	DO	Medium	SC612	9/30/02
CHERRY CREEK	DO	High	SC605	9/30/02
FLAT ROCK CREEK	Cu	Low	SC613	2/25/05
LABETTE CREEK	DO	High	SC564, SC571	9/30/02
LABETTE CREEK (TP)	TP	High	SC564, SC571	9/28/2016
Subbasin: Lake O'The Cherokees (HUC 11070206)				
TAR CREEK	Zn, Pb, Cd	Medium	SC110	2/25/05
Subbasin: Spring (HUC 11070207)				
COW CREEK (LAWTON)	SO4	Low	SC567	2/25/05
COW CREEK (LAWTON) (TP)	TP	High	SC567	8/28/17

SHAWNEE CREEK	DO	High	SC569	9/30/02
SHORT CREEK	TP	High	SC570	1/8/16
SHOAL CREEK	TP	High	SC212	1/8/16
SPRING RIVER	Zn, Pb, Cu, Cd, Bio	High	SC210, SC211, SC212, SB213, SC568, SC569, SC570	6/24/05

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Neosho Headwaters (HUC 11070201)				
COUNCIL GROVE LAKE	EU	High	LM022001	9/30/09
COUNCIL GROVE LAKE (Silt)	Silt	High	LM022001	9/30/02
JOHN REDMOND LAKE	EU	Medium	LM026001	2/27/03
JOHN REDMOND LAKE (Silt)	Silt	Medium	LM026001	2/27/03
JONES PARK POND	EU	Low	LM068701	1/6/05
OLPE CITY LAKE	EU	High	LM041001	1/6/05
OLPE CITY LAKE (Silt)	Silt	High	LM041001	1/6/05
LAKE KAHOLA	EU	Medium	LM043401	12/4/2014
Subbasin: Upper Cottonwood (HUC 11070202)				
MARION CO LAKE	DO	Medium	LM012101	9/30/02
MARION CO LAKE	EU	Medium	LM012101	9/30/02
MARION LAKE	EU	High	LM020001	9/30/09
Subbasin: Upper Neosho (HUC 11070204)				
CHANUTE/SF CITY LAKE	EU	Medium	LM044401	9/30/02
CHANUTE/SF CITY LAKE	DO	Medium	LM044401	9/30/02
CHANUTE/SF CITY LAKE	pH	Medium	LM044401	9/30/02
GRIDLEY CITY LAKE	DO	Medium	LM045601	9/30/02
GRIDLEY CITY LAKE	EU	Medium	LM045601	9/30/02
Subbasin: Middle Neosho (HUC 11070205)				

ALTAMONT CITY LAKE #1, #2(DE), #3	EU	Low	LM068101	9/30/02
BARTLETT CITY LAKE	EU	Low	LM045401	9/30/02
MINED LAND WA UNIT #42	DO	Low	LM038841	9/30/02
NEOSHO CO SFL	DO	Medium	LM044601	9/30/02
NEOSHO CO SFL	EU	Medium	LM044601	9/30/02
NEOSHO CO SFL	pH	Medium	LM044601	9/30/02
NEOSHO WMA	EU	Medium	LM053401	9/30/02
NEOSHO WMA	pH	Medium	LM053401	9/30/02
NEOSHO WMA (Silt)	Silt	Medium	LM053401	9/30/02
NEOSHO WMA (Pb)	Pb	Medium	LM053401	1/6/05
PARSONS LAKE	EU	Medium	LM041401	9/30/02
PARSONS LAKE (Silt)	Silt	Medium	LM041401	9/30/02
MINED LAND LAKES	SO4	Low	LM035901, 048201, 036801, 036901, 037301, 037601, 038841, 048401	1/6/05
Subbasin: Spring (HUC 11070207)				
PITTSBURG COLLEGE LAKE	EU	Low	LM073301	9/30/02
PITTSBURG COLLEGE LAKE	pH	Low	LM073301	9/30/02
PLAYTER'S LAKE	EU	Low	LM069001	1/6/05

TMDLs for the Smoky Hill/Saline Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Smoky Hill (HUC 10260001)				

SMOKY HILL RIVER (ELKADER)	SO4	Low	SC224, SC550, SC739	3/3/04
SMOKY HILL RIVER (ELKADER) (F)	F	Low	SC224	11/15/04
Subbasin: Upper Smoky Hill (HUC 10260003)				
SMOKY HILL RIVER (TREGO)	Se	Low	SC550	11/15/04
Subbasin: Hackberry (HUC 10260005)				
SMOKY HILL RIVER (TREGO) (SO4)	SO4	Low	SC550	3/3/04
SMOKY HILL RIVER (TREGO) (DO)	DO	Medium	SC550, SC739 2010 Delisted Station: SC224	11/15/04
Subbasin: Middle Smoky Hill (HUC 10260006)				
SMOKY HILL R (ELLSWORTH)	SO4	Low	SC269	3/3/04
SMOKY HILL R (RUSSELL)	SO4	Low	SC007	3/3/04
SMOKY HILL R (SCHOENCHEN)	SO4	Low	SC539	3/3/04
LANDON CREEK	CI	Low	SC714	11/15/04
SMOKY HILL R (ELLSWORTH) (CI)	CI	Low	SC269	11/15/04
SMOKY HILL R (RUSSELL) (CI)	CI	Low	SC007	11/15/04
Subbasin: Big (HUC 10260007)				
BIG CREEK (TSS)	TSS	High	SC540, SC752	9/30/10
BIG CREEK (Nitrate)	NO3	High	SC540	9/30/10
BIG CREEK (ECB)	ECB	High	SC540	9/30/10
BIG CREEK (TP)	TP	High	SC540, SC541	9/28/11
N. FK BIG CREEK	CI	Low	SC715	11/15/04
Subbasin: Lower Smoky Hill (HUC 10260008)				
HOLLAND CREEK	DO	High	SC642	8/7/03

SMOKY HILL River (Mentor)	ECB	High	SC514	9/30/10
SMOKY HILL R (ENTERPRISE)	SO4	Low	SC265	11/15/04
TURKEY CREEK (ABILENE)	SO4	Low	SC644	11/15/04
SMOKY HILL RIVER (SALINA)	Bio	Low	SB268	3/3/04
SMOKY HILL RIVER (KANOPOLIS to SALINA)	TSS	High	SC514, SC268	9/23/2011
SMOKY HILL RIVER (SALINA to JUNCTION CITY)	TSS	High	SC265, SC264	9/23/2011
HOLLAND CREEK (SO4)	SO4	Low	SC642	11/15/04
SMOKY HILL R (ENTERPRISE) (CI)	CI	Low	SC265	11/15/04
KANSAS RIVER (OGDEN)	CI	Low	SC518	11/15/04
MUD CREEK (ABILENE)	SO4	Low	SC643	11/15/04
KANSAS RIVER (OGDEN) (SO4)	SO4	Low	SC518	11/15/04
CARRY CREEK	SO4	Low	SC708	11/15/04
CHAPMAN CREEK	SO4	Low	SC515	11/15/04
GYPSUM CREEK	SO4	Low	SC641	11/15/04
Subbasin: Upper Saline (HUC 10260009)				
SALINE RIVER (HAYS)	Se	Low	SC548	11/15/04
PARADISE CREEK	CI	Low	SC538	11/15/04
SALINE RIVER (RUSSELL)	Se	Low	SC011	11/15/04
PARADISE CREEK (SO4)	SO4	Low	SC538	11/15/04
SALINE RIVER (HAYS) (SO4)	SO4	Low	SC548	11/15/04
SALINE RIVER (RUSSELL) (SO4)	SO4	Low	SC011	11/15/04
SALINE RIVER (RUSSELL) (CI)	CI	Low	SC011	11/15/04

Subbasin: Lower Saline (HUC 10260010)				
SPILLMAN CREEK	DO	High	SC673	8/7/03
SALINE RIVER (BEVERLY)	SO4	Low	SC513	11/15/04
SALINE RIVER (NEW CAMBRIA)	SO4	Low	SC267	11/15/04
WOLF CREEK (SYLVAN GROVE)	SO4	Low	SC537	11/15/04
WOLF CREEK (SYLVAN GROVE) (Se)	Se	Low	SC537	11/15/04
SALINE RIVER (NEW CAMBRIA) (CI)	CI	Low	SC267	11/15/04
WOLF CREEK (SYLVAN GROVE) (CI)	CI	Low	SC537	11/15/04
BULLFOOT CREEK	SO4	Low	SC672	11/15/04
ELKHORN CREEK	SO4	Low	SC671	11/15/04
SALINE RIVER (BEVERLY) (CI)	CI	Low	SC513	11/15/04

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: North Fork Smoky Hill (HUC 10260002)				
SMOKY HILL GARDENS LAKE	EU	Low	LM070101	9/30/03
Subbasin: Upper Smoky Hill (HUC 10260003)				
CEDAR BLUFF LAKE	SO4	Low	LM013001	3/3/04
CEDAR BLUFF LAKE (EU)	EU	Medium	LM013001	9/30/03
Subbasin: Ladder (HUC 10260004)				
LAKE SCOTT STATE PARK	AP	High	LM011201	8/7/03
LAKE SCOTT STATE PARK	EU	High	LM011201	8/7/03
LAKE SCOTT STATE PARK	pH	High	LM011201	8/7/03

Subbasin: Middle Smoky Hill (HUC 10260006)				
FOSSIL LAKE	EU	Low	LM052601	9/30/03
FOSSIL LAKE (Silt)	Silt	Low	LM052601	9/30/03
KANOPOLIS LAKE	SO4	Low	LM016001	3/3/04
KANOPOLIS LAKE	EU	High	LM016001	8/7/03
KANOPOLIS LAKE (CI)	CI	Low	LM016001	11/15/04
Subbasin: Big (HUC 10260007)				
BIG CREEK OXBOW	EU	Low	LM070301	9/30/03
ELLIS CITY LAKE	EU	Low	LM069601	9/30/03
Subbasin: Lower Smoky Hill (10260008)				
MCPHERSON CO SFL/WA	AP	Medium	LM013501	9/30/03
MCPHERSON CO SFL/WA	DO	Medium	LM013501	9/30/03
MCPHERSON CO SFL/WA	EU	Medium	LM013501	9/30/03
MCPHERSON CO SFL/WA	pH	Medium	LM013501	9/30/03
HERINGTON RESERVOIR	Atr	Medium	LM047201	9/30/03
HERINGTON CITY PARK LAKE	EU	Low	LM072801	9/30/03
HERINGTON RESERVOIR (DO)	DO	High	LM047201	8/7/03
LAKEWOOD PARK LAKE	EU	Low	LM069801	9/30/03
GEARY CO SFL	EU	Medium	LM043201	9/30/03
HERINGTON CITY LAKE	EU	Low	LM069701	9/30/03
HERINGTON RESERVOIR (EU)	EU	High	LM047201	8/7/03
Subbasin: Upper Saline (HUC 10260009)				
PLAINVILLE TOWNSHIP	EU	Low	LM070001	9/30/03
SHERIDAN WA	pH	Medium	LM014501	9/30/03
SHERIDAN WA (FCB)	FCB	Medium	LM014501	9/30/03
WILSON LAKE	CI	Low	LM014001	11/15/04
WILSON LAKE (SO4)	SO4	Low	LM014001	11/15/04

TMDLs for the Missouri Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Tarkio - Wolf (HUC 10240005)				
WOLF RIVER	FCB	High	SC201	8/28/01
WOLF RIVER (Bio)	Bio	High	SB363, SC201	2/28/08
Subbasin: South Fork Big Nemaha (HUC 10240007)				
BIG NEMAHA RIVER,SOUTH FORK	FCB	High	SC234, SC601, SC682	8/28/01
BIG NEMAHA RIVER,SOUTH FORK (Bio)	Bio	High	SB234, SC234, SC601, SC682	2/28/08
ILLINOIS CREEK	Se	Low	SC682	8/28/01
TURKEY CREEK	Atr	Medium	SC601	2/28/08
Subbasin: Big Nemaha (HUC 10240008)				
WALNUT CREEK	FCB	High	SC292	8/28/01
Subbasin: Independence-Sugar (HUC 10240011)				
Subbasin: Lower Missouri - Crooked (HUC 10300101)				
BLUE RIVER	FCB	Medium	SC205	8/28/01
BLUE RIVER (Bio)	Bio	Medium	SB205	8/28/01
INDIAN CREEK	FCB	Medium	SC204	8/28/01
INDIAN CREEK (Nitrate)	Nitrate	High	SC204	2/28/08

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Tarkio-Wolf (HUC 10240005)				
BROWN CO SFL/WA	DO	Medium	LM010301	8/28/01
BROWN CO SFL/WA	EU	Medium	LM010301	8/28/01

BROWN CO SFL/WA	pH	Medium	LM010301	8/28/01
BROWN CO SFL/WA	AP	Medium	LM010301	8/28/01
HIAWATHA CITY LAKE	EU	Medium	LM011601	8/28/01
HIAWATHA CITY LAKE (Atr)	Atr	Medium	LM011601	8/28/01
TROY FAIR LAKE (DONIPHAN FAIR ASSOCIATION LAKE)	AP	Low	LM073801	8/28/01
TROY FAIR LAKE (DONIPHAN FAIR ASSOCIATION LAKE)	EU	Low	LM073801	8/28/01
Subbasin: South Fork Big Nemaha (HUC 10240007)				
SABETHA CITY LAKE	EU	Low	LM011501	8/28/01
Subbasin: Big Nemaha (HUC 10240008)				
PONY CREEK LAKE (EU)	EU	High	LM073001	2/28/08
Subbasin: Independence-Sugar (HUC 10240011)				
ATCHINSON CO LAKE	AP	Low	LM012601	8/28/01
ATCHINSON CO LAKE	DO	Low	LM012601	8/28/01
ATCHINSON CO LAKE (Silt)	Silt	High	LM012601	2/28/08
ATCHINSON CO SFL	EU	Medium	LM012601	12/17/2013
ATCHINSON CO SFL	pH	Medium	LM012601	12/17/2013
BIG ELEVEN LAKE	EU	Low	LM067101	8/28/01
JERRY'S LAKE	EU	Low	LM067801	12/5/2013
LANSING CITY LAKE	pH	Low	LM067210	8/28/01
LANSING CITY LAKE	EU	Low	LM067210	8/28/01
WYANDOTTE CNTY LAKE	EU	High	LM042401	2/28/08
Subbasin: Lower Missouri-Crooked (HUC 10300101)				
SOUTH PARK LAKE	EU	Low	LM067501	8/28/01

TMDLs for the Kansas Lower Republican River Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Middle Republican (HUC 10250016)				
REPUBLICAN RIVER (FCB)	FCB	Low	SC231	1/26/00
WHITE ROCK CREEK (Se)	Se	Low	SC508	1/26/00
WHITE ROCK CREEK (FCB)	FCB	Low	SC508	1/26/00
WHITE ROCK CREEK (SO4)	SO4	Low	SC508	1/5/2012
Subbasin: Lower Republican (HUC 10250017)				
BUFFALO CREEK (FCB)	FCB	Low	SC509	1/26/00
REPUBLICAN RIVER NEAR CLAY CENTER (FCB)	FCB	Medium	SC503	1/26/00
REPUBLICAN RIVER NEAR CONCORDIA (FCB)	FCB	Medium	SC003, SC510	1/26/00
SALT CREEK (DO)	DO	High	SC650	1/26/00
SALT CREEK (FCB)	FCB	High	SC650	1/26/00
Subbasin: Upper Kansas (HUC 10270101)				
UPPER KANSAS RIVER (TP)	TP	High	SC518	11/08/17
UPPER KANSAS RIVER (CI)	CI	Low	SC262, SC518	1/26/00
UPPER KANSAS RIVER (FCB)	FCB	Medium	SC262, SC518	1/26/00
UPPER KANSAS RIVER (SO4)	SO4	Low	SC262, SC518	1/26/00

WILDCAT CREEK (FCB)	FCB	High	SC652	1/26/00
WILDCAT CREEK (DO)	DO	High	SC652	1/26/00
Subbasin: Middle Kansas (HUC 10270102)				
CROSS CREEK (ECB)	ECB	High	SC551	7/31/2012
KANSAS RIVER AT TOPEKA (NH3)	NH3	High	Modeled	4/28/00
KANSAS RIVER AT TOPEKA (FCB)	FCB	Medium	SC258	1/26/00
KANSAS RIVER BELOW TOPEKA (FCB)	FCB	Medium	SC143	1/26/00
KANSAS RIVER BELOW TOPEKA (Bio)	Bio	Medium	SC143, SB257	1/26/00
KANSAS RIVER NEAR WAMEGO (FCB)	FCB	Medium	SC260	1/26/00
KANSAS RIVER AT WILLARD (ECB)	ECB	High	SC259	7/31/12
MIDDLE KANSAS RIVER	TP	High	SC260, SC259, SC257	11/08/17
SHUNGANUNGA CREEK (FCB)	FCB	High	SC238	1/26/00
SHUNGANUNGA CREEK (TP)	TP	High	SC238	1/16/18
UPPER SOLDIER CREEK (Bio)	Sediment / Bio	High	SC101, SB299	8/3/07
VERMILLION CREEK (FCB)	FCB	High	SC520, SC681	1/26/00
VERMILLION CREEK (ECB)	ECB	High	SC520, SC645, SC681	10/16/12
Subbasin: Delaware (HUC 10270103)				
DELAWARE RIVER ABOVE PERRY LAKE (FCB)	FCB	High	SC554, SC103	1/26/00
GRASSHOPPER CREEK (ATR)	ATR	Medium	SC603	1/5/2012
GRASSHOPPER CREEK (FCB)	FCB	High	SC137, SC139, SC603	1/26/00

Subbasin: Lower Kansas (HUC 10270104)				
CEDAR CREEK (FCB)	FCB	High	SC252	1/26/00
CEDAR CREEK (NO23)	NO23	High	SC252	8/3/07
COAL CREEK (DO)	DO	Low	SC679	3/2/2012
CROOKED CREEK (Bio)	Bio	Low	SB683	1/26/00
CROOKED CREEK (TP)	TP	High	SC683	4/4/2018
STRANGER CREEK (TP)	TP	High	SC602	4/4/2018
KANSAS RIVER AT LAWRENCE (Bio)	Bio	Medium	SB257, SC256	1/26/00
KILL CREEK (FCB)	FCB	High	SC253	1/26/00
LOWER KANSAS RIVER (Bio)	Bio	Medium	SC127, SC203, SC250, SB254, SC255	1/26/00
LOWER KANSAS RIVER (ECB)	ECB	High	SC203, SC254, SC255, SC257	1/16/08
LOWER KANSAS RIVER (Bio-sed)	Bio	Medium	SC127, SC203, SC250, SB254, SC255	1/26/00
LOWER KANSAS RIVER (TP)	TP	High	SC255, SC254, SC203, SC500, SC253, SC252, SC251	12/15/17
LOWER WAKARUSA RIVER (FCB)	FCB	Medium	SC236, SC500	1/26/00
MILL CREEK (CI)	CI	Low	SC251	1/26/00
MILL CREEK (FCB-high)	FCB	High	SC251	1/26/00
MILL CREEK (JO. CO)	Bio	High	SC251, SB251	8/3/07
NINEMILE CREEK (Pb)	Pb	Low	SC680	6/15/2012
STRANGER CREEK (FCB)	FCB	High	SC501, SC602	1/26/00
STRANGER CREEK (Cu)	Cu	Low	SC501, SC602	6/15/2012
STRANGER CREEK (Pb)	Pb	Low	SC501, SC602	6/15/2012
UPPER WAKARUSA RIVER (Bio)	Bio	High	SB109	1/26/00
UPPER WAKARUSA RIVER (FCB)	FCB	High	SC109	1/26/00

UPPER WAKARUSA RIVER (Bio-high)	Bio	High	SB109	1/26/00
WASHINGTON CREEK (DO)	DO	High	SC678	1/26/00
Subbasin: Lower Big Blue (HUC 10270205)				
BIG BLUE RIVER ABOVE TUTTLE CREEK (FCB)	FCB	High	SC233, SC240, SC717	1/26/00
BLACK VERMILLION RIVER (FCB)	FCB	High	SC128, SC129, SC130, SC131, SC132, SC133, SC134, SC141, SC505	1/26/00
FANCY CREEK (FCB)	FCB	Medium	SC502	1/26/00
TUTTLE CREEK LAKE & WATERSHED (Atr)	Atr	High	LM021001, SC502, SC505, SC240, SC232, SC233, SC507, SC712, SC717, SC741	8/3/07
Subbasin: Lower Little Blue (HUC 10270207)				
LITTLE BLUE RIVER (FCB)	FCB	High	SC232, SC240, SC507	1/26/00

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Middle Republican (HUC 10250016)				
LOVEWELL LAKE (EU)	EU	High	LM015001	1/6/2012
LOVEWELL LAKE (pH)	pH	High	LM015001	1/6/2012
Subbasin: Lower Republican (HUC 10250017)				
BELLEVILLE CITY LAKE (EU)	EU	Low	LM060701	1/26/00
JAMESTOWN WMA (EU)	EU	Low	LM052801	1/26/00
JAMESTOWN WMA (pH)	pH	Low	LM052801	1/26/00
JAMESTOWN WMA (Silt)	Silt	Low	LM052801	1/26/00
JAMESTOWN WMA (FCB)	FCB	Low	LM052801	1/26/00
LAKE JEWELL (AP)	AP	Medium	LM062901	1/26/00

LAKE JEWELL (EU)	EU	Medium	LM062901	1/26/00
LAKE JEWELL (DO)	DO	Medium	LM062901	1/26/00
MILFORD LAKE (EU)	EU	High	LM019001	7/15/2014
MILFORD LAKE (DO)	DO	High	LM019001	7/15/2014
Subbasin: Lower Smoky Hill (HUC 10260008)				
RIMROCK PARK LAKE (DO)	DO	Medium	LM070501	8/7/03
RIMROCK PARK LAKE (EU)	EU	Medium	LM070501	8/7/03
Subbasin: Upper Kansas (HUC 10270101)				
OGDEN CITY LAKE (EU)	EU	Low	LM011701	1/26/00
Subbasin: Middle Kansas (HUC 10270102)				
CENTRAL PARK LAKE (EU)	EU	Low	LM060901	1/26/00
GAGE PARK LAKE (EU)	EU	Low	LM061101	1/26/00
LAKE SHAWNEE (EU)	EU	High	LM012011	2/29/2012
MYERS' POND (EU)	EU	Low	LM075201	1/26/00
WAMEGO CITY LAKE (EU)	EU	Low	LM062101	1/26/00
WARREN PARK LAKE (AP)	AP	Low	LM062001	1/26/00
WARREN PARK LAKE (EU)	EU	Low	LM062001	1/26/00
Subbasin: Delaware (HUC 10270103)				
LITTLE LAKE (EU)	EU	Low	LM062601	1/26/00
MISSION LAKE (EU)	EU	High	LM013601	1/26/00
MISSION LAKE (Atr)	Atr	High	LM013601	1/26/00
MISSION LAKE (SILT)	SILT	High	LM013601	3/22/2012
PERRY LAKE (EU)	EU	High	LM029001	2/29/2012
PERRY LAKE WILDLIFE AREA WETLAND (EU)	EU	High	LM029041	2/29/2012
PERRY LAKE WILDLIFE AREA WETLAND (DO)	DO	High	LM029041	2/29/2012
SABETHA WATERSHED POND (EU)	EU	Low	LM075101	1/26/00

Subbasin: Lower Kansas (HUC 10270104)				
ANTIOCH PARK LAKE (Chl)	Chl	High	LM067701	8/22/01
BAKER WETLANDS (DO)	DO	High	LM014401	1/26/00
CLINTON LAKE (EU)	EU	High	LM030001	1/26/00
FRISCO LAKE/JOHNSON CO. (EU)	EU	Low	LM065201	1/26/00
GARDNER CITY LAKE (DO)	DO	High	LM040401	1/26/00
GARDNER CITY LAKE (EU)	EU	High	LM040401	1/26/00
LAKE OLATHE & CEDAR LAKE (EU)	EU	High	LM061301, LM061601	9/28/07
LAKEVIEW ESTATES LAKE (EU)	EU	Low	LM075301	1/26/00
LAKEVIEW ESTATES LAKE (AP)	AP	Low	LM075301	1/26/00
LONE STAR LAKE (EU)	EU	Low	LM011401	1/26/00
MARY'S LAKE (pH)	pH	Medium	LM061401	1/26/00
MARY'S LAKE (EU)	EU	Medium	LM061401	1/26/00
MARY'S LAKE (DO)	DO	Medium	LM061401	1/26/00
PIERSON PARK LAKE (EU)	EU	Low	LM061801	1/26/00
POTTER'S LAKE (EU)	EU	Low	LM073401	1/26/00
POTTER'S LAKE (pH)	pH	Low	LM073401	1/26/00
SUNFLOWER PARK LAKE (EU)	EU	Medium	LM073601	1/26/00
SUNFLOWER PARK LAKE (DO)	DO	Medium	LM073601	1/26/00
WATERWORKS LAKES (EU)	EU	Low	LM062201	1/26/00
Subbasin: Lower Big Blue (HUC 10270205)				
CENTRALIA LAKE (AP)	AP	Medium	LM073701	1/26/00
CENTRALIA LAKE (EU)	EU	Medium	LM073701	1/26/00

CENTRALIA LAKE (pH)	pH	Medium	LM073701	1/26/00
TUTTLE CREEK LAKE (EU)	EU	High	LM021001	1/26/00
TUTTLE CREEK LAKE (Atr)	Atr	High	LM021001	1/26/00
TUTTLE CREEK LAKE (Silt)	Silt	High	LM021001	1/26/00
TUTTLE CREEK LAKE (Ala)	Ala	High	LM021001	1/26/00
TUTTLE CREEK LAKE & WATERSHED (Atr)	Atr	High	LM021001, SC502, SC505, SC240, SC232, SC233, SC507, SC712, SC717, SC741	8/3/07
Subbasin: Lower Little Blue (HUC 10270207)				
LAKE IDLEWILD (EU)	EU	Low	LM061201	1/26/00
WASHINGTON CO SFL (DO)	DO	Low	LM010901	1/26/00
WASHINGTON CO SFL (AP)	AP	Low	LM010901	1/26/00
WASHINGTON WA (EU)	EU	Low	LM010941	1/26/00
WASHINGTON WA (Silt)	Silt	Low	LM010941	1/26/00

TMDLs for the Solomon River Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper North Fork Solomon (HUC 10260011)				
BOW CREEK	Se	Low	SC545	1/21/04
UPPER NORTH FORK SOLOMON RIVER	Se	Low	SC546	1/21/04
UPPER NORTH FORK SOLOMON RIVER (SO4)	SO4	Low	SC546	1/21/04
Subbasin: Lower North Fork Solomon (HUC 10260012)				

BEAVER CREEK (GAYLORD)	SO4	Low	SC670	1/21/04
BEAVER CREEK (GAYLORD) (Se)	Se	Low	SC670	1/21/04
DEER CREEK (KIRWIN)	Se	Low	SC721	1/21/04
DEER CREEK (KIRWIN) (SO4)	SO4	Low	SC721	1/21/04
LOWER NORTH FORK SOLOMON RIVER (ECB)	ECB	Medium	SC014	9/23/2011
LOWER NORTH FORK SOLOMON RIVER	SO4	Low	SC014	1/21/04
LOWER NORTH FORK SOLOMON RIVER (Se)	Se	Low	SC014	1/21/04
OAK CREEK	SO4	Low	SC544	1/21/04
OAK CREEK (Se)	Se	Low	SC544	1/21/04
Subbasin: Upper South Fork Solomon (HUC 10260013)				
UPPER SOUTH FORK SOLOMON RIVER	SO4	Low	SC547	1/21/04
UPPER SOUTH FORK SOLOMON RIVER (Se)	Se	Low	SC547	1/21/04
Subbasin: Lower South Fork Solomon (HUC 10260014)				
CARR CREEK	SO4	Low	SC669	1/21/04
COVERT CREEK	Se	Low	SC666	1/21/04
COVERT CREEK (SO4)	SO4	Low	SC666	1/21/04
KILL CREEK (BLOOMINGTON)	SO4	Low	SC665	1/21/04
KILL CREEK (BLOOMINGTON) (Se)	Se	Low	SC665	1/21/04
LOWER SOUTH FORK SOLOMON RIVER (ECB)	ECB	High	SC542, SC543	9/23/2011
LOWER SOUTH FORK SOLOMON RIVER	Se	Low	SC542, SC543	1/21/04
LOWER SOUTH FORK SOLOMON RIVER (SO4)	SO4	Low	SC542, SC543	1/21/04

LOWER SOUTH FORK SOLOMON RIVER (Bio)	Bio	Low	SB543	1/21/04
TWIN CREEK	DO	Medium	SC668	1/21/04
TWIN CREEK (Se)	Se	Medium	SC668	1/21/04
Subbasin: Solomon River (HUC 10260015)				
LIMESTONE CREEK	SO4	Low	SC667	1/21/04
LIMESTONE CREEK (DO)	DO	High	SC667	8/7/03
LIMESTONE CREEK (Se)	Se	Low	SC667	1/21/04
LOWER SOLOMON RIVER (TSS)	TSS	High	SC266	9/23/2011
LOWER SOLOMON RIVER	SO4	Low	SC266	1/21/04
LOWER SOLOMON RIVER (CI)	CI	Low	SC266	1/21/04
SALT CREEK (MINNEAPOLIS)	CI	Low	SC512	1/21/04
SALT CREEK (MINNEAPOLIS) (SO4)	SO4	Low	SC512	1/21/04
UPPER SOLOMON RIVER	SO4	Low	SC511	1/21/04
UPPER SOLOMON RIVER (CI)	CI	Low	SC511	1/21/04

Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Upper North Fork Solomon (HUC 10260011)				
KIRWIN LAKE	EU	Medium	LM011001	9/30/03
KIRWIN LAKE	DO	Medium	LM011001	9/30/03
LOGAN CITY LAKE	EU	Low	LM069301	9/30/03
Subbasin: Upper South Fork Solomon (HUC 10260013)				
SHERIDAN CO SFL	DO	Medium	LM069401	9/30/03
SHERIDAN CO SFL	EU	Medium	LM069401	9/30/03
WEBSTER LAKE	EU	Medium	LM012001	9/30/03

WEBSTER LAKE (SO4)	SO4	Low	LM012001	1/21/04
Subbasin: Lower South Fork Solomon (HUC 10260014)				
ROOKS CO SFL/WA	EU	Medium	LM011901	9/30/03
ROOKS CO SFL/WA	DO	Medium	LM011901	9/30/03
Subbasin: Solomon River (HUC 10260015)				
OTTAWA CO SFL	AP	Medium	LM014101	9/30/03
OTTAWA CO SFL	EU	Medium	LM014101	9/30/03
OTTAWA CO SFL	DO	Medium	LM014101	9/30/03
WACONDA LAKE	EU	Medium	LM018001	9/30/03
WACONDA LAKE (SO4)	SO4	Low	LM018001	1/21/04

TMDLs for Upper Republican Basin

Table 1 - Stream TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Arikaree (HUC 10250001)				
ARIKAREE RIVER (Se)	Se	Low	SC226	9/20/06
ARIKAREE RIVER (F)	F	Low	SC226	9/20/06
Subbasin: South Fork Republican (HUC 10250003)				
LOWER S FK. REPUBLICAN RIVER (F)	F	Low	SC227	8/7/03
UPPER S FK. REPUBLICAN RIVER	F	Low	SC225	8/7/03
Subbasin: South Fork Beaver, Little Beaver, Beaver (HUCs 10250012, 0013, & 0014)				
BEAVER CREEK	F	Low	SC228	9/20/06
BEAVER CREEK (DO)	DO	Low	SC228	9/20/06
Subbasin: Prairie Dog (HUC 10250015)				

UPPER PRAIRIE DOG CREEK	TP	High	SC549	2/29/12
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Table 2 - Lake TMDLs

Waterbody	Impairment	Priority	Station	ApprovalStatus
Subbasin: Prairie Dog (HUC 10250015)				
COLBY CITY POND	EU	Low	LM071301	8/7/03
NORTON LAKE	pH	Low	LM010001	8/7/03
NORTON LAKE - Revision	EU	High	LM010001	2/29/12
NORTON LAKE	DO	Low	LM010001	8/7/03

2018 303(d) List of All Impaired & Potentially Impaired Waters



Bureau of Water

Watershed Planning, Monitoring, and Assessment Section

April 13, 2018

This list is organized alphabetically by:

Major River Basin

- Subbasin (HUC 12)
 - Category
 - Impairment
 - Stream/Lake

Explanation of Column Headers

Cat.: Reporting category for the listed water:

Cat. 2: Water was previously listed as impaired but now has water quality sufficient to support its designated uses.

Cat. 3: There is insufficient available data and/or information to make a use support designation.

Cat. 4a: A Total Maximum Daily Load (TMDL) has been developed for the waterbody/combination.

Cat 4b: Alternative to TMDLs – NPDES permits are addressing the impairment or an atrazine impairment is being addressed utilizing a watershed plan.

Cat 5: Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed.

Stream/Lake: Registered stream where sampling station is located or a Registered Lake.

Impaired Use: The designated use under assessment: Aquatic Life, Recreation, Water Supply, or Food Procurement.

Impairment: The pollutant impairing the designated use of the stream.

Station: Unique identifier indicating KDHE stream chemistry (SC) monitoring station or KDHE lake monitoring (LM) station where data for assessment is collected.

Counties: Counties where the stream watershed or lake is located.

Body Type:

Watershed: Impairment applies to the stream watershed monitored at the SC station indicated.

Lake: Impairment applies to a lake waterbody as monitored at the LM station indicated.

Facility: Impairment has been linked to a NPDES discharging facility.

Priority:

Years 2017-2020: TMDL is scheduled for development for the year indicated.

Years 2022-2023: TMDL not yet scheduled for development but may be addressed during TMDL development planning during 2022-2023.

High-Medium-Low: Indicates TMDL implementation priority.

Blank: Applies to Category 3 waters and implies more data is needed before assigning priority.

2018 303(d) List of All Impaired/Potentially Impaired Waters

Cimarron River Basin

11040002

Upper Cimarron

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Point of Rocks Lake (Moss Lake West)	Aquatic Life	Eutrophication	LM060501	MT	Lake	2023
5	Point of Rocks Lake (Moss Lake West)	Water Supply	Fluoride	LM060501	MT	Lake	2023
5	Point of Rocks Lake (Moss Lake West)	Water Supply	Sulfate	LM060501	MT	Lake	2023
3	Point of Rocks Lake (Moss Lake West)	Aquatic Life	Dissolved Oxygen	LM060501	MT	Lake	

11040006

Upper Cimarron-Liberal

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cimarron River Near Forgan, Oklahoma	Aquatic Life	Dissolved Oxygen	SC222	ME, MT, SV, SW	Watershed	2023
5	Cimarron River Near Forgan, Oklahoma	Aquatic Life	Selenium	SC222	ME, MT, SV, SW	Watershed	2023
5	Cimarron River Near Forgan, Oklahoma	Aquatic Life	Total Phosphorus	SC222	ME, MT, SV, SW	Watershed	2023
4a	Cimarron River Near Forgan, Oklahoma	Water Supply	Chloride	SC222	ME, MT, SV, SW	Watershed	Low
4a	Cimarron River Near Forgan, Oklahoma	Aquatic Life	pH	SC222	ME, MT, SV, SW	Watershed	Low

11040007

Crooked Creek

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Crooked Creek Near Englewood	Aquatic Life	Dissolved Oxygen	SC600	GY, HS, ME	Watershed	2023
5	Crooked Creek Near Englewood	Water Supply	Fluoride	SC600	GY, HS, ME	Watershed	2023
5	Lake Meade State Park	Water Supply	Fluoride	LM010601	ME	Lake	2023
4a	Lake Meade State Park	Recreation	Aquatic Plants	LM010601	ME	Lake	High
4a	Crooked Creek Near Englewood	Water Supply	Chloride	SC600	GY, HS, ME	Watershed	Low
4a	Lake Meade State Park	Aquatic Life	Dissolved Oxygen	LM010601	ME	Lake	High
4a	Lake Meade State Park	Aquatic Life	Eutrophication	LM010601	ME	Lake	High
4a	Lake Meade State Park	Aquatic Life	pH	LM010601	ME	Lake	High
3	Crooked Creek Near Englewood	Recreation	E. coli	SC600	GY, HS, ME	Watershed	

11040008
Upper Cimarron-Bluff

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Bluff Creek Near Protection	Water Supply	Chloride	SC593	CA, CM	Watershed	2023
5	Big Sandy Creek Near Ashland	Aquatic Life	Dissolved Oxygen	SC738	ME, CA	Watershed	2023
5	Day Creek Near Sitka	Aquatic Life	Dissolved Oxygen	SC701	CA, CM	Watershed	2023
5	Clark Co. SFL	Aquatic Life	Eutrophication	LM010101	CA	Lake	2023
5	Big Sandy Creek Near Ashland	Water Supply	Fluoride	SC738	ME, CA	Watershed	2023
5	St. Jacobs Well (Big Basin W.A.)	Water Supply	Fluoride	LM060001	CA	Lake	2023
4a	Big Sandy Creek Near Ashland	Water Supply	Chloride	SC738	ME, CA	Watershed	Low
4a	Cimarron River Near Protection	Water Supply	Chloride	SC592	ME, CA	Watershed	Low
4a	Day Creek Near Sitka	Water Supply	Chloride	SC701	CA, CM	Watershed	Low
4a	Cavalry Creek Near Protection	Recreation	E. coli	SC624	KW, CM	Watershed	Medium
4a	Lake Coldwater	Aquatic Life	Eutrophication	LM042601	CM	Lake	Low
4a	St. Jacobs Well (Big Basin W.A.)	Aquatic Life	Eutrophication	LM060001	CA	Lake	High
4a	Big Sandy Creek Near Ashland	Water Supply	Sulfate	SC738	ME, CA	Watershed	Low

Kansas Lower Republican River Basin

10250016
Middle Republican

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	White Rock Creek Near Burr Oak	Water Supply	Arsenic	SC508	JW, SM	Watershed	2023
5	Republican River Near Hardy, Nebraska	Aquatic Life	Biology	SC231	JW, SM	Watershed	2023
5	Republican River Near Hardy, Nebraska	Water Supply	Gross Alpha	SC231	JW, SM	Watershed	2023
5	Republican River Near Hardy, Nebraska	Aquatic Life	Total Phosphorus	SC231	JW, SM	Watershed	2023
5	White Rock Creek Near Burr Oak	Aquatic Life	Total Phosphorus	SC508	JW, SM	Watershed	2023
5	White Rock Creek Near Burr Oak	Aquatic Life	Total Suspended Solids	SC508	JW, SM	Watershed	2023
4a	Republican River Near Hardy, Nebraska	Recreation	E. coli	SC231	JW, SM	Watershed	Low
4a	White Rock Creek Near Burr Oak	Recreation	E. coli	SC508	JW, SM	Watershed	Low
4a	Lovewell Lake	Aquatic Life	Eutrophication	LM015001	JW	Lake	Low
4a	Republican River Near Hardy, Nebraska	Aquatic Life	Eutrophication	SC231	JW, SM	Lake	High

10250016

Middle Republican

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Lovewell Lake	Aquatic Life	pH	LM015001	JW	Lake	Low
4a	White Rock Creek Near Burr Oak	Aquatic Life	Selenium	SC508	JW, SM	Watershed	Low
4a	White Rock Creek Near Burr Oak	Water Supply	Sulfate	SC508	JW, SM	Watershed	Low

10250017

Lower Republican

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Buffalo Creek Near Concordia	Water Supply	Arsenic	SC509	JW, CD	Watershed	2023
5	Wolf Creek Near Concordia	Water Supply	Arsenic	SC707	CD	Watershed	2023
5	Republican River Near Clay Center	Aquatic Life	Biology	SC503	CY	Watershed	2022
5	Republican River Near Rice	Aquatic Life	Biology	SC510	JW, RP, CD	Watershed	2023
5	Salt Creek Near Hollis	Water Supply	Chloride	SC650	RP	Watershed	2023
5	Elm Creek Near Ames	Aquatic Life	Copper	SC709	CD	Watershed	2023
5	Mulberry Creek Near Clifton	Aquatic Life	Copper	SC710	CD, CY	Watershed	2023
5	Peats Creek Near Clifton	Aquatic Life	Copper	SC649	WS	Watershed	2023
5	Wolf Creek Near Concordia	Aquatic Life	Dissolved Oxygen	SC707	CD	Watershed	2022
5	Buffalo Creek Near Concordia	Aquatic Life	Selenium	SC509	JW, CD	Watershed	2023
5	Buffalo Creek Near Concordia	Water Supply	Sulfate	SC509	JW, CD	Watershed	2023
5	Five Creek Near Clay Center	Water Supply	Sulfate	SC711	CD, CY	Watershed	2023
5	Buffalo Creek Near Concordia	Aquatic Life	Total Phosphorus	SC509	JW, CD	Watershed	2019
5	Elm Creek Near Ames	Aquatic Life	Total Phosphorus	SC709	CD	Watershed	2019
5	Mulberry Creek Near Clifton	Aquatic Life	Total Phosphorus	SC710	CD, CY	Watershed	2019
5	Peats Creek Near Clifton	Aquatic Life	Total Phosphorus	SC649	WS	Watershed	2019
5	Republican River Near Clay Center	Aquatic Life	Total Phosphorus	SC503	CY	Watershed	2019
5	Republican River Near Clay Center	Aquatic Life	Total Phosphorus	SC504	RP, WS, CD, CY	Watershed	2019
5	Republican River Near Rice	Aquatic Life	Total Phosphorus	SC510	JW, RP, CD	Watershed	2019
5	Salt Creek Near Hollis	Aquatic Life	Total Phosphorus	SC650	RP	Watershed	2019
5	Wolf Creek Near Concordia	Aquatic Life	Total Phosphorus	SC707	CD	Watershed	2019
5	Buffalo Creek Near Concordia	Aquatic Life	Total Suspended Solids	SC509	JW, CD	Watershed	2023
5	Republican River Near Clay Center	Aquatic Life	Total Suspended Solids	SC504	RP, WS, CD, CY	Watershed	2023
5	Republican River Near Clay Center	Aquatic Life	Total Suspended Solids	SC503	CY	Watershed	2023

10250017
Lower Republican

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Salt Creek Near Hollis	Aquatic Life	Total Suspended Solids	SC650	RP	Watershed	2023
4a	Milford Lake	Aquatic Life	Dissolved Oxygen	LM019001	CY, RL, GE	Lake	High
4a	Rimrock Park Lake	Aquatic Life	Dissolved Oxygen	LM070501	GE	Lake	Medium
4a	Salt Creek Near Hollis	Aquatic Life	Dissolved Oxygen	SC650	RP	Watershed	High
4a	Republican River Near Clay Center	Recreation	E. coli	SC503	CY	Watershed	Medium
4a	Republican River Near Clay Center	Recreation	E. coli	SC504	RP, WS, CD, CY	Watershed	Medium
4a	Republican River Near Rice	Recreation	E. coli	SC510	JW, RP, CD	Watershed	Medium
4a	Salt Creek Near Hollis	Recreation	E. coli	SC650	RP	Watershed	High
4a	Belleville City Lake	Aquatic Life	Eutrophication	LM060701	RP	Lake	Low
4a	Buffalo Creek Near Concordia	Aquatic Life	Eutrophication	SC509	JW, CD	Lake	High
4a	Elm Creek Near Ames	Aquatic Life	Eutrophication	SC709	CD	Lake	High
4a	Five Creek Near Clay Center	Aquatic Life	Eutrophication	SC711	CD, CY	Lake	High
4a	Jamestown W.A.	Aquatic Life	Eutrophication	LM052801	CD	Lake	Low
4a	Milford Lake	Aquatic Life	Eutrophication	LM019001	CY, RL, GE	Lake	High
4a	Mulberry Creek Near Clifton	Aquatic Life	Eutrophication	SC710	CD, CY	Lake	High
4a	Peats Creek Near Clifton	Aquatic Life	Eutrophication	SC649	WS	Lake	High
4a	Republican River Near Clay Center	Aquatic Life	Eutrophication	SC503	CY	Lake	High
4a	Republican River Near Clay Center	Aquatic Life	Eutrophication	SC504	RP, WS, CD, CY	Lake	High
4a	Republican River Near Rice	Aquatic Life	Eutrophication	SC510	JW, RP, CD	Lake	High
4a	Rimrock Park Lake	Aquatic Life	Eutrophication	LM070501	GE	Lake	Medium
4a	Salt Creek Near Hollis	Aquatic Life	Eutrophication	SC650	RP	Lake	High
4a	Wolf Creek Near Concordia	Aquatic Life	Eutrophication	SC707	CD	Lake	High
4a	Buffalo Creek Near Concordia	Recreation	Fecal Coli	SC509	JW, CD	Watershed	Low
4a	Jamestown W.A.	Recreation	Fecal Coli	LM052801	CD	Lake	Low
4a	Jamestown W.A.	Aquatic Life	pH	LM052801	CD	Lake	Low
4a	Jamestown W.A.	Water Supply	Siltation	LM052801	CD	Lake	Low
3	Jamestown W.A.	Water Supply	Arsenic	LM052801	CD	Lake	
3	Elm Creek Near Ames	Recreation	E. coli	SC709	CD	Watershed	
3	Wolf Creek Near Concordia	Recreation	E. coli	SC707	CD	Watershed	

10270101 Upper Kansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Kansas River Near Ogden	Aquatic Life	Total Suspended Solids	SC518	RL, GE	Watershed	2023
4a	Wildcat Creek Near Manhattan	Aquatic Life	Dissolved Oxygen	SC652	RL	Watershed	High
4a	Kansas River Near Ogden	Recreation	E. coli	SC518	RL, GE	Watershed	Medium
4a	Wildcat Creek Near Manhattan	Recreation	E. coli	SC652	RL	Watershed	High
4a	Ogden City Lake	Aquatic Life	Eutrophication	LM011701	RL	Lake	Low
4a	Kansas River Near Ogden	Water Supply	Sulfate	SC518	RL, GE	Watershed	Low
4a	Kansas River Near Ogden	Aquatic Life	Total Phosphorus	SC518	RL, GE	Watershed	High
3	Sevenmile Creek Near Ogden	Aquatic Life	Biology	SC759	RL	Watershed	

10270102 Middle Kansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Lost Creek Near Belvue	Water Supply	Arsenic	SC755	PT	Watershed	2023
5	Soldier Creek Near Delia	Aquatic Life	Atrazine	SC101	NM, JA	Watershed	2023
5	Soldier Creek Near Topeka	Aquatic Life	Atrazine	SC239	JA, SN	Watershed	2023
5	Vermillion Creek Near Louisville	Aquatic Life	Atrazine	SC520	PT, SN, WB	Watershed	2023
5	Halfday Creek	Aquatic Life	Biology	SB376	SN, JA	Watershed	2023
5	Kansas River At Wamego	Aquatic Life	Biology	SC260	RI, PT, WB	Watershed	2022
5	Kansas River At Willard	Aquatic Life	Biology	SC259	PT, SN, WB	Watershed	2022
5	Mission Creek Near Valencia	Aquatic Life	Biology	SC648	SN, WB	Watershed	2023
5	Vermillion Creek Near Louisville	Aquatic Life	Biology	SC520	PT, SN, WB	Watershed	2023
5	Pottawatomie Co. SFL #1	Aquatic Life	Dissolved Oxygen	LM012901	PT	Lake	2022
5	Mission Creek Near Valencia	Recreation	E. coli	SC648	SN, WB	Watershed	2023
5	Muddy Creek Near Grantville	Recreation	E. coli	SC639	JA, JF, SN	Watershed	2023
5	Soldier Creek Near Topeka	Recreation	E. coli	SC239	JA, SN	Watershed	2023
5	Pottawatomie Co. SFL #1	Aquatic Life	Eutrophication	LM012901	PT	Lake	2022
5	Topeka Public Golf Course Lake	Aquatic Life	Eutrophication	LM050101	SN	Lake	2023
5	Lost Creek Near Belvue	Aquatic Life	Selenium	SC755	PT	Watershed	2023
5	Kansas River At Wamego	Aquatic Life	Total Suspended Solids	SC260	RI, PT, WB	Watershed	2023
5	Kansas River At Willard	Aquatic Life	Total Suspended Solids	SC259	PT, SN, WB	Watershed	2023

10270102
Middle Kansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Soldier Creek Near Delia	Aquatic Life	Total Suspended Solids	SC101	NM, JA	Watershed	2023
4a	Warren Park Lake	Recreation	Aquatic Plants	LM062001	SN	Lake	Low
4a	Soldier Creek Near Circleville	Aquatic Life	Biology	SC299	JA, NM	Watershed	High
4a	Soldier Creek Near Delia	Aquatic Life	Biology	SC101	NM, JA	Watershed	High
4a	Cross Creek Near Rossville	Recreation	E. coli	SC551	JA, PT	Watershed	High
4a	Kansas River At Willard	Recreation	E. coli	SC259	PT, SN, WB	Watershed	High
4a	Rock Creek Near Louisville	Recreation	E. coli	SC645	PT	Watershed	High
4a	Shunganunga Creek Near Topeka	Recreation	E. coli	SC238	SN	Watershed	High
4a	Vermillion Creek Near Louisville	Recreation	E. coli	SC520	PT, SN, WB	Watershed	High
4a	Vermillion Creek Near Onaga	Recreation	E. coli	SC681	NM, PT	Watershed	High
4a	Central Park Lake	Aquatic Life	Eutrophication	LM060901	SN	Lake	Low
4a	Gage Park Lake	Aquatic Life	Eutrophication	LM061101	SN	Lake	Low
4a	Lake Shawnee	Aquatic Life	Eutrophication	LM012201	SN	Lake	High
4a	Myer's Lake	Aquatic Life	Eutrophication	LM075201	SN	Lake	Low
4a	Wamego City Lake	Aquatic Life	Eutrophication	LM062101	PT	Lake	Low
4a	Warren Park Lake	Aquatic Life	Eutrophication	LM062001	SN	Lake	Low
4a	Kansas River At Topeka	Recreation	Fecal Coli	SC258	PT, SN, WB	Watershed	Medium
4a	Kansas River At Wamego	Recreation	Fecal Coli	SC260	RI, PT, WB	Watershed	Medium
4a	Kansas River At Wamego	Aquatic Life	Total Phosphorus	SC260	RI, PT, WB	Watershed	High
4a	Kansas River At Willard	Aquatic Life	Total Phosphorus	SC259	PT, SN, WB	Watershed	High
4a	Shunganunga Creek Near Topeka	Aquatic Life	Total Phosphorus	SC238	SN	Watershed	High
3	Deep Creek	Aquatic Life	Biology	SB410	RL	Watershed	
3	Deep Creek Near Manhattan	Aquatic Life	Biology	SC647	RL	Watershed	
3	Illinois Creek Near Alma	Aquatic Life	Biology	SC726	WB	Watershed	
3	West Branch Mill Creek Near Alma	Aquatic Life	Biology	SC506	GE, WB	Watershed	
3	Shunganunga Creek Near Topeka	Aquatic Life	Diazinon	SC238	SN	Watershed	
3	Alma City Lake	Aquatic Life	Eutrophication	LM050001	WB	Lake	
3	Dornwood Park Lake	Aquatic Life	Eutrophication	LM062301	SN	Lake	
3	Pillsbury Crossing W.A.	Food Procurement	Mercury	LM020301	RL	Lake	
3	Wamego City Lake	Food Procurement	Mercury	LM062101	PT	Lake	
3	Myer's Lake	Aquatic Life	pH	LM075201	SN	Lake	

10270103

Delaware

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Delaware River at Hwy 36	Aquatic Life	Biology	SB352	BR, NM	Watershed	2023
5	Delaware River Near Half Mound	Aquatic Life	Biology	SC554	NM, BR, JA, AT	Watershed	2022
5	Atchison Co. Park Lake	Aquatic Life	Eutrophication	LM060601	AT	Lake	2023
5	Banner Creek Lake	Aquatic Life	Eutrophication	LM032001	JA	Lake	2023
5	Elkhorn Lake	Aquatic Life	Eutrophication	LM061001	JA	Lake	2023
5	Nebo SFL	Aquatic Life	Eutrophication	LM061501	JA	Lake	2023
5	Prairie Lake	Aquatic Life	Eutrophication	LM061901	JA	Lake	2022
5	Atchison Co. Park Lake	Water Supply	Siltation	LM060601	AT	Lake	2023
5	Delaware River Near Half Mound	Aquatic Life	Total Phosphorus	SC554	NM, BR, JA, AT	Watershed	2019
5	Elk Creek Near Larkinburg	Aquatic Life	Total Phosphorus	SC604	JA, PT	Watershed	2019
5	Grasshopper Creek Near Muscotah	Aquatic Life	Total Phosphorus	SC603	BR, AT	Watershed	2019
4a	Grasshopper Creek Near Muscotah	Aquatic Life	Atrazine	SC603	BR, AT	Watershed	Low
4a	Mission Lake	Aquatic Life	Atrazine	LM013601	BR	Lake	High
4a	Perry W.A. Wetland	Aquatic Life	Dissolved Oxygen	LM029041	JF	Lake	Low
4a	Delaware River Near Half Mound	Recreation	E. coli	SC554	NM, BR, JA, AT	Watershed	High
4a	Elk Creek Near Larkinburg	Recreation	E. coli	SC604	JA, PT	Watershed	High
4a	Grasshopper Creek Near Muscotah	Recreation	E. coli	SC603	BR, AT	Watershed	High
4a	Straight Creek Near Larkinburg	Recreation	E. coli	SC686	NM, JA	Watershed	High
4a	Little Lake	Aquatic Life	Eutrophication	LM062601	BR	Lake	Low
4a	Mission Lake	Aquatic Life	Eutrophication	LM013601	BR	Lake	High
4a	Perry Lake	Aquatic Life	Eutrophication	LM029001	JA, JF	Lake	High
4a	Perry W.A. Wetland	Aquatic Life	Eutrophication	LM029041	JF	Lake	High
4a	Sabetha Watershed Lake (Niehues)	Aquatic Life	Eutrophication	LM075101	NM	Lake	Low
4a	Mission Lake	Water Supply	Siltation	LM013601	BR	Lake	High
3	Rock Creek Near Rock	Recreation	E. coli	SC684	JA, JF	Watershed	
3	Lake Jayhawk	Aquatic Life	Eutrophication	LM039701	JF	Lake	

10270104

Lower Kansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Turkey Creek	Aquatic Life	Ammonia	NPDES55492	JO	Facility	2022
5	Captain Creek Near Eudora	Aquatic Life	Atrazine	SC638	DG, JO	Watershed	2023

10270104
Lower Kansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Crooked Creek Near Winchester	Aquatic Life	Atrazine	SC683	JF	Watershed	2023
5	Kansas River At Kansas City, Kansas	Aquatic Life	Atrazine	SC203	LV, WY, JO	Watershed	2023
5	Kill Creek At Desoto	Aquatic Life	Atrazine	SC253	JO	Watershed	2023
5	Stranger Creek Near Easton	Aquatic Life	Atrazine	SC602	AT, JF, LV	Watershed	2023
5	Stranger Creek Near Linwood	Aquatic Life	Atrazine	SC501	LV	Watershed	2023
5	Stranger Creek Near Easton	Aquatic Life	Biology	SC602	AT, JF, LV	Watershed	2023
5	Stranger Creek Near Linwood	Aquatic Life	Biology	SC501	LV	Watershed	2023
5	Wakarusa River Near Eudora	Aquatic Life	Biology	SC500	DG	Watershed	2023
5	Antioch Park Lake	Aquatic Life	Eutrophication	LM067701	JO	Lake	2023
5	Baker Wetlands	Aquatic Life	Eutrophication	LM014401	DG	Wetland	2022
5	Carbondale West Lake	Aquatic Life	Eutrophication	LM060801	OS	Lake	2022
5	Douglas Co. SFL	Aquatic Life	Eutrophication	LM011301	DG	Lake	2022
5	Lake Quivera	Aquatic Life	Eutrophication	LM022701	JO	Lake	2023
5	Leavenworth Co. SFL	Aquatic Life	Eutrophication	LM012301	LV	Lake	2022
5	Lenexa Lake	Aquatic Life	Eutrophication	LM022601	JO	Lake	2022
5	Mahaffie Farmstead Lake	Aquatic Life	Eutrophication	LM020401	JO	Lake	2023
5	Overbrook Lake	Aquatic Life	Eutrophication	LM020501	OS	Lake	2023
5	Rose's Lake	Aquatic Life	Eutrophication	LM062501	JO	Lake	2022
5	Strowbridge Reservoir	Aquatic Life	Eutrophication	LM051201	OS	Lake	2022
5	Baker Wetlands	Aquatic Life	Lead	LM014401	DG	Wetland	2023
5	Kansas River At Eudora	Food Procurement	PCB	SC255	JF, LV, DG	Watershed	2023
5	Baker Wetlands	Aquatic Life	pH	LM014401	DG	Wetland	2022
5	Crooked Creek Near Winchester	Aquatic Life	Total Phosphorus	SC683	JF	Watershed	2017
5	Stranger Creek Near Easton	Aquatic Life	Total Phosphorus	SC602	AT, JF, LV	Watershed	2017
5	Kansas River At Desoto	Aquatic Life	Total Suspended Solids	SC254	LV, JO	Watershed	2023
5	Kansas River At Eudora	Aquatic Life	Total Suspended Solids	SC255	JF, LV, DG	Watershed	2023
5	Kansas River At Kansas City, Kansas	Aquatic Life	Total Suspended Solids	SC203	LV, WY, JO	Watershed	2023
5	Kansas River At Lecompton	Aquatic Life	Total Suspended Solids	SC257	JF, SN, DG	Watershed	2023
5	Stranger Creek Near Easton	Aquatic Life	Total Suspended Solids	SC602	AT, JF, LV	Watershed	2023
5	Wakarusa River Near Eudora	Aquatic Life	Total Suspended Solids	SC500	DG	Watershed	2023

10270104
Lower Kansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Lakeview Estates Lake	Recreation	Aquatic Plants	LM075301	SN	Lake	Low
4a	Crooked Creek Near Winchester	Aquatic Life	Biology	SC683	JF	Watershed	Low
4a	Kansas River At Desoto	Aquatic Life	Biology	SC254	LV, JO	Watershed	Medium
4a	Kansas River At Eudora	Aquatic Life	Biology	SC255	JF, LV, DG	Watershed	Medium
4a	Kansas River At Kansas City, Kansas	Aquatic Life	Biology	SC203	LV, WY, JO	Watershed	Medium
4a	Kansas River At Lecompton	Aquatic Life	Biology	SC257	JF, SN, DG	Watershed	Medium
4a	Mill Creek Near Shawnee	Aquatic Life	Biology	SC251	JO	Watershed	High
4a	Wakarusa River Near Topeka	Aquatic Life	Biology	SC109	SN, OS	Watershed	High
4a	Kansas River At Desoto	Aquatic Life	Biology/Sediment	SC254	LV, JO	Watershed	Medium
4a	Kansas River At Kansas City, Kansas	Aquatic Life	Biology/Sediment	SC203	LV, WY, JO	Watershed	Medium
4a	Mill Creek Near Shawnee	Aquatic Life	Biology/Sediment	SC251	JO	Watershed	Medium
4a	Wakarusa River Near Topeka	Aquatic Life	Biology/Sediment	SC109	SN, OS	Watershed	High
4a	Antioch Park Lake	Food Procurement	Chlordane	LM067701	JO	Lake	Low
4a	Mill Creek Near Shawnee	Water Supply	Chloride	SC251	JO	Watershed	Low
4a	Stranger Creek Near Easton	Aquatic Life	Copper	SC602	AT, JF, LV	Watershed	Low
4a	Baker Wetlands	Aquatic Life	Dissolved Oxygen	LM014401	DG	Wetland	High
4a	Gardner City Lake	Aquatic Life	Dissolved Oxygen	LM040401	JO	Lake	High
4a	Mary's Lake	Aquatic Life	Dissolved Oxygen	LM061401	DG	Lake	Medium
4a	Sunflower Park Lake	Aquatic Life	Dissolved Oxygen	LM073601	JO	Lake	Medium
4a	Washington Creek Near Lawrence	Aquatic Life	Dissolved Oxygen	SC678	DG	Watershed	High
4a	Cedar Creek Near Cedar Junction	Recreation	E. coli	SC252	JO	Watershed	High
4a	Coal Creek Near Sibleyville	Recreation	E. coli	SC679	DG	Watershed	Medium
4a	Kansas River At Desoto	Recreation	E. coli	SC254	LV, JO	Watershed	High
4a	Kansas River At Eudora	Recreation	E. coli	SC255	JF, LV, DG	Watershed	High
4a	Kansas River At Kansas City, Kansas	Recreation	E. coli	SC203	LV, WY, JO	Watershed	High
4a	Kansas River At Lecompton	Recreation	E. coli	SC257	JF, SN, DG	Watershed	High
4a	Kill Creek At Desoto	Recreation	E. coli	SC253	JO	Watershed	High
4a	Mill Creek Near Shawnee	Recreation	E. coli	SC251	JO	Watershed	High
4a	Stranger Creek Near Easton	Recreation	E. coli	SC602	AT, JF, LV	Watershed	High
4a	Stranger Creek Near Linwood	Recreation	E. coli	SC501	LV	Watershed	High
4a	Wakarusa River Near Eudora	Recreation	E. coli	SC500	DG	Watershed	High

10270104
Lower Kansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Wakarusa River Near Topeka	Recreation	E. coli	SC109	SN, OS	Watershed	High
4a	Cedar Lake	Aquatic Life	Eutrophication	LM061601	JO	Lake	High
4a	Clinton Lake	Aquatic Life	Eutrophication	LM030001	SN, DG, OS	Lake	High
4a	Frisco Lake	Aquatic Life	Eutrophication	LM065201	JO	Lake	Low
4a	Gardner City Lake	Aquatic Life	Eutrophication	LM040401	JO	Lake	High
4a	Lakeview Estates Lake	Aquatic Life	Eutrophication	LM075301	SN	Lake	Low
4a	Lone Star Lake	Aquatic Life	Eutrophication	LM011401	DG	Lake	Low
4a	Mary's Lake	Aquatic Life	Eutrophication	LM061401	DG	Lake	Medium
4a	New Olathe Lake	Aquatic Life	Eutrophication	LM061301	JO	Lake	High
4a	Olathe Waterworks Lakes	Aquatic Life	Eutrophication	LM062201	JO	Lake	Low
4a	Pierson Park Lake	Aquatic Life	Eutrophication	LM061801	WY	Lake	Low
4a	Potter's Lake	Aquatic Life	Eutrophication	LM073401	DG	Lake	Low
4a	Sunflower Park Lake	Aquatic Life	Eutrophication	LM073601	JO	Lake	Medium
4a	Buck Creek Near Williamstown	Recreation	Fecal Coli	SC677	JF	Watershed	Medium
4a	Nine Mile Creek Near Linwood	Recreation	Fecal Coli	SC680	JF, LV, DG	Watershed	High
4a	Nine Mile Creek Near Linwood	Aquatic Life	Lead	SC680	JF, LV, DG	Watershed	Low
4a	Stranger Creek Near Easton	Aquatic Life	Lead	SC602	AT, JF, LV	Watershed	Low
4a	Stranger Creek Near Linwood	Aquatic Life	Lead	SC501	LV	Watershed	Low
4a	Cedar Creek Near Cedar Junction	Water Supply	Nitrate	SC252	JO	Watershed	High
4a	Mary's Lake	Aquatic Life	pH	LM061401	DG	Lake	Medium
4a	Cedar Creek Near Cedar Junction	Aquatic Life	Total Phosphorus	SC252	JO	Watershed	High
4a	Kansas River At Desoto	Aquatic Life	Total Phosphorus	SC254	LV, JO	Watershed	High
4a	Kansas River At Eudora	Aquatic Life	Total Phosphorus	SC255	JF, LV, DG	Watershed	High
4a	Kansas River At Kansas City, Kansas	Aquatic Life	Total Phosphorus	SC203	LV, WY, JO	Watershed	High
4a	Kansas River At Lecompton	Aquatic Life	Total Phosphorus	SC257	JF, SN, DG	Watershed	High
4a	Kill Creek At Desoto	Aquatic Life	Total Phosphorus	SC253	JO	Watershed	High
4a	Mill Creek Near Shawnee	Aquatic Life	Total Phosphorus	SC251	JO	Watershed	High
4a	Wakarusa River Near Eudora	Aquatic Life	Total Phosphorus	SC500	DG	Watershed	High
3	Mill Creek Near Shawnee	Aquatic Life	Diazinon	SC251	JO	Watershed	
3	Captain Creek Near Eudora	Recreation	E. coli	SC638	DG, JO	Watershed	
3	Crooked Creek Near Winchester	Recreation	E. coli	SC683	JF	Watershed	

10270205

Lower Big Blue

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Big Blue River Near Oketo	Water Supply	Arsenic	SC233	MS	Watershed	2023
5	Big Blue River Near Oketo	Aquatic Life	Biology	SC233	MS	Watershed	2022
5	Black Vermillion River Near Frankfort	Aquatic Life	Biology	SC505	MS,NM	Watershed	2022
5	Horseshoe Creek	Aquatic Life	Biology	SB475	MS	Watershed	2022
5	North Fork Black Vermillion River Near Vliets	Aquatic Life	Biology	SC128	MS, NM	Watershed	2022
5	Spring Creek	Aquatic Life	Biology	SB476	MS	Watershed	2022
5	Big Blue River Near Blue Rapids	Aquatic Life	Copper	SC240	MS	Watershed	2023
5	Big Blue River Near Blue Rapids	Aquatic Life	pH	SC240	MS	Watershed	2022
5	Big Blue River Near Oketo	Aquatic Life	pH	SC233	MS	Watershed	2022
5	Fancy Creek Near Randolph	Water Supply	Sulfate	SC502	WS, CY, RL	Watershed	2023
5	Horseshoe Creek Near Marysville	Water Supply	Sulfate	SC717	MR, CS	Watershed	2023
5	Big Blue River Near Blue Rapids	Aquatic Life	Total Phosphorus	SC240	MS	Watershed	2019
5	Big Blue River Near Oketo	Aquatic Life	Total Phosphorus	SC233	MS	Watershed	2019
5	Black Vermillion River Near Frankfort	Aquatic Life	Total Phosphorus	SC505	MS,NM	Watershed	2019
5	Horseshoe Creek Near Marysville	Aquatic Life	Total Phosphorus	SC717	MR, CS	Watershed	2019
5	North Elm Creek Near Oketo	Aquatic Life	Total Phosphorus	SC731	MS, NM	Watershed	2019
5	Robidoux Creek near Frankfort	Aquatic Life	Total Phosphorus	SC754	MS	Watershed	2019
5	Big Blue River Near Blue Rapids	Aquatic Life	Total Suspended Solids	SC240	MS	Watershed	2023
5	Big Blue River Near Oketo	Aquatic Life	Total Suspended Solids	SC233	MS	Watershed	2023
5	Black Vermillion River Near Frankfort	Aquatic Life	Total Suspended Solids	SC505	MS,NM	Watershed	2023
4a	Tuttle Creek Lake	Aquatic Life	Alachlor	LM021001	MS, RL, PT	Lake	High
4a	Centralia Lake	Recreation	Aquatic Plants	LM073701	NM	Lake	Medium
4a	Big Blue River Near Blue Rapids	Aquatic Life	Atrazine	SC240	MS	Watershed	High
4a	Big Blue River Near Oketo	Aquatic Life	Atrazine	SC233	MS	Watershed	High
4a	Black Vermillion River Near Frankfort	Aquatic Life	Atrazine	SC505	MS,NM	Watershed	High
4a	Fancy Creek Near Randolph	Aquatic Life	Atrazine	SC502	WS, CY, RL	Watershed	High
4a	Horseshoe Creek Near Marysville	Aquatic Life	Atrazine	SC717	MR, CS	Watershed	High
4a	North Elm Creek Near Oketo	Aquatic Life	Atrazine	SC731	MS, NM	Watershed	High

10270205
Lower Big Blue

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Tuttle Creek Lake	Aquatic Life	Atrazine	LM021001	MS, RL, PT	Lake	High
4a	Big Blue River Near Blue Rapids	Recreation	E. coli	SC240	MS	Watershed	High
4a	Big Blue River Near Oketo	Recreation	E. coli	SC233	MS	Watershed	High
4a	Black Vermillion River Near Frankfort	Recreation	E. coli	SC505	MS,NM	Watershed	High
4a	Fancy Creek Near Randolph	Recreation	E. coli	SC502	WS, CY, RL	Watershed	Medium
4a	Horseshoe Creek Near Marysville	Recreation	E. coli	SC717	MR, CS	Watershed	High
4a	Centralia Lake	Aquatic Life	Eutrophication	LM073701	NM	Lake	Medium
4a	Tuttle Creek Lake	Aquatic Life	Eutrophication	LM021001	MS, RL, PT	Lake	High
4a	Centralia Lake	Aquatic Life	pH	LM073701	NM	Lake	Medium
4a	Tuttle Creek Lake	Water Supply	Siltation	LM021001	MS, RL, PT	Lake	High
3	Centralia Lake	Water Supply	Arsenic	LM073701	NM	Lake	
3	Rocky Ford W.A.	Food Procurement	Mercury	LM020601	RL	Lake	

10270207
Lower Little Blue

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Rose Creek Near Narka	Water Supply	Arsenic	SC712	RP	Watershed	2023
5	Little Blue River Near Hollenberg	Aquatic Life	Biology	SC232	RP, WS	Watershed	2022
5	Little Blue River Near Hollenberg	Aquatic Life	Copper	SC232	RP, WS	Watershed	2023
5	Washington Co. SFL	Aquatic Life	Eutrophication	LM010901	WS	Lake	2023
5	Washington W.A.	Aquatic Life	Lead	LM010941	WS	Lake	2023
5	Little Blue River Near Hollenberg	Aquatic Life	pH	SC232	RP, WS	Watershed	2022
5	Little Blue River Near Hollenberg	Aquatic Life	Total Phosphorus	SC232	RP, WS	Watershed	2019
5	Little Blue River Near Waterville	Aquatic Life	Total Phosphorus	SC741	WS, MS	Watershed	2019
5	Mill Creek Near Hanover	Aquatic Life	Total Phosphorus	SC507	RP, WS	Watershed	2023
5	Rose Creek Near Narka	Aquatic Life	Total Phosphorus	SC712	RP	Watershed	2019
5	Little Blue River Near Hollenberg	Aquatic Life	Total Suspended Solids	SC232	RP, WS	Watershed	2023
5	Little Blue River Near Waterville	Aquatic Life	Total Suspended Solids	SC741	WS, MS	Watershed	2023
5	Mill Creek Near Hanover	Aquatic Life	Total Suspended Solids	SC507	RP, WS	Watershed	2023
4a	Washington Co. SFL	Recreation	Aquatic Plants	LM010901	WS	Lake	Low
4a	Little Blue River Near Hollenberg	Aquatic Life	Atrazine	SC232	RP, WS	Watershed	High

10270207
Lower Little Blue

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Little Blue River Near Waterville	Aquatic Life	Atrazine	SC741	WS, MS	Watershed	High
4a	Mill Creek Near Hanover	Aquatic Life	Atrazine	SC507	RP, WS	Watershed	High
4a	Rose Creek Near Narka	Aquatic Life	Atrazine	SC712	RP	Watershed	High
4a	Washington Co. SFL	Aquatic Life	Dissolved Oxygen	LM010901	WS	Lake	Low
4a	Little Blue River Near Hollenberg	Recreation	E. coli	SC232	RP, WS	Watershed	High
4a	Little Blue River Near Waterville	Recreation	E. coli	SC741	WS, MS	Watershed	High
4a	Mill Creek Near Hanover	Recreation	E. coli	SC507	RP, WS	Watershed	High
4a	Lake Idlewild	Aquatic Life	Eutrophication	LM061201	MS	Lake	Low
4a	Washington W.A.	Aquatic Life	Eutrophication	LM010941	WS	Lake	Low
4a	Washington W.A.	Water Supply	Siltation	LM010941	WS	Lake	Low
3	Washington W.A.	Aquatic Life	Dissolved Oxygen	LM010941	WS	Lake	
3	Rose Creek Near Narka	Recreation	E. coli	SC712	RP	Watershed	

Lower Arkansas River Basin

11030009
Rattlesnake

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Quivira Big Salt Marsh	Water Supply	Chloride	LM050601	SF	Lake	Low
4a	Quivira Little Salt Marsh	Water Supply	Chloride	LM050201	SF	Lake	Low
4a	Rattlesnake Creek Near Hudson	Water Supply	Chloride	SC660	SF, ED, KW	Watershed	
4a	Quivira Big Salt Marsh	Aquatic Life	Eutrophication	LM050601	SF	Lake	High
4a	Quivira Little Salt Marsh	Aquatic Life	Eutrophication	LM050201	SF	Lake	High
4a	Quivira Big Salt Marsh	Aquatic Life	pH	LM050601	SF	Lake	High
4a	Quivira Little Salt Marsh	Aquatic Life	pH	LM050201	SF	Lake	High
4a	Quivira Big Salt Marsh	Water Supply	Siltation	LM050601	SF	Lake	High
4a	Quivira Little Salt Marsh	Water Supply	Siltation	LM050201	SF	Lake	High
3	Kiowa Co. SFL	Aquatic Life	Eutrophication	LM042801	KW	Lake	

11030010
Gar-Peace

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Salt Creek Near Hutchinson	Recreation	E. coli	SC659	RN	Watershed	2023
5	Arkansas River Near Hutchinson	Aquatic Life	Selenium	SC523	RC, RN	Watershed	2023
5	Arkansas River Near Yoder	Aquatic Life	Selenium	SC524	RN	Watershed	2023

11030010**Gar-Peace**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Arkansas River Near Yoder	Aquatic Life	Total Phosphorus	SC524	RN	Watershed	2017
4a	Arkansas River Near Hutchinson	Aquatic Life	Biology	SC523	RC, RN	Watershed	Medium
4a	Arkansas River Near Maize	Aquatic Life	Biology	SC536	RN, SG	Watershed	Medium
4a	Arkansas River Near Yoder	Aquatic Life	Biology	SC524	RN	Watershed	Medium
4a	Arkansas River Near Hutchinson	Water Supply	Chloride	SC523	RC, RN	Watershed	Medium
4a	Arkansas River Near Maize	Water Supply	Chloride	SC536	RN, SG	Watershed	Medium
4a	Arkansas River Near Yoder	Water Supply	Chloride	SC524	RN	Watershed	Medium
4a	Peace Creek Near Sterling	Water Supply	Chloride	SC658	SF, RN, PR	Watershed	Low
4a	Salt Creek Near Hutchinson	Water Supply	Chloride	SC659	RN	Watershed	Medium
4a	Peace Creek Near Sterling	Recreation	E. coli	SC658	SF, RN, PR	Watershed	Medium
4a	Carey Park Lake	Aquatic Life	Eutrophication	LM063001	RN	Lake	Low
4a	Peace Creek Near Sterling	Aquatic Life	pH	SC658	SF, RN, PR	Watershed	Medium
4a	Salt Creek Near Hutchinson	Aquatic Life	pH	SC659	RN	Watershed	Medium

11030011**Cow Creek**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cow Creek Near Lyons	Water Supply	Arsenic	SC657	EW, BT, RC	Watershed	2023
5	Cow Creek Near Willowbrook	Water Supply	Arsenic	SC522	RC, RN	Watershed	2023
5	Barton Lake	Aquatic Life	Eutrophication	LM072701	BT	Lake	2023
5	Sterling City Lake	Aquatic Life	Eutrophication	LM064801	RC	Lake	2023
5	Cow Creek Near Hutchinson	Food Procurement	PCB	SC287	RN	Watershed	2023
5	Cow Creek Near Hutchinson	Aquatic Life	Selenium	SC287	RN	Watershed	2023
5	Cow Creek Near Willowbrook	Aquatic Life	Selenium	SC522	RC, RN	Watershed	2023
5	Cheyenne Bottoms	Water Supply	Siltation	LM050401	BT	Lake	2023
5	Cow Creek Near Lyons	Aquatic Life	Total Phosphorus	SC657	EW, BT, RC	Watershed	2023
5	Cow Creek Near Willowbrook	Aquatic Life	Total Phosphorus	SC522	RC, RN	Watershed	2023
5	Little Cow Creek Near Lyons	Aquatic Life	Total Phosphorus	SC656	EW, RC	Watershed	2023
5	Cow Creek Near Lyons	Aquatic Life	Total Suspended Solids	SC657	EW, BT, RC	Watershed	2023
5	Cow Creek Near Willowbrook	Aquatic Life	Total Suspended Solids	SC522	RC, RN	Watershed	2023
4a	Cow Creek Near Hutchinson	Aquatic Life	Biology	SC287	RN	Watershed	Medium
4a	Cow Creek Near Hutchinson	Water Supply	Chloride	SC287	RN	Watershed	Medium
4a	Cow Creek Near Lyons	Water Supply	Chloride	SC657	EW, BT, RC	Watershed	Medium

11030011 Cow Creek

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Cow Creek Near Willowbrook	Water Supply	Chloride	SC522	RC, RN	Watershed	Medium
4a	Little Cow Creek Near Lyons	Water Supply	Chloride	SC656	EW, RC	Watershed	Medium
4a	Cheyenne Bottoms	Aquatic Life	Dissolved Oxygen	LM050401	BT	Lake	High
4a	Little Cow Creek Near Lyons	Aquatic Life	Dissolved Oxygen	SC656	EW, RC	Watershed	High
4a	Cow Creek Near Hutchinson	Recreation	E. coli	SC287	RN	Watershed	High
4a	Cow Creek Near Willowbrook	Recreation	E. coli	SC522	RC, RN	Watershed	High
4a	Little Cow Creek Near Lyons	Recreation	E. coli	SC656	EW, RC	Watershed	High
4a	Cheyenne Bottoms	Aquatic Life	Eutrophication	LM050401	BT	Lake	High
4a	Cow Creek Near Lyons	Recreation	Fecal Coli	SC657	EW, BT, RC	Watershed	High
4a	Little Cow Creek Near Lyons	Water Supply	Nitrate	SC656	EW, RC	Watershed	High
3	Cow Creek Near Willowbrook	Aquatic Life	Atrazine	SC522	RC, RN	Watershed	
3	Little Cow Creek Near Lyons	Aquatic Life	Diazinon	SC656	EW, RC	Watershed	

11030012 Little Arkansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Black Kettle Creek Near Halstead	Water Supply	Arsenic	SC705	MP, HV	Watershed	2023
5	Emma Creek Near Sedgwick	Water Supply	Arsenic	SC534	MP, MN, HV	Watershed	2023
5	Little Arkansas River At Alta Mills	Water Supply	Arsenic	SC246	MP, RC, RN	Watershed	2023
5	Turkey Creek Near Alta Mills	Water Supply	Arsenic	SC533	MP, RC, RN	Watershed	2023
5	Black Kettle Creek Near Halstead	Aquatic Life	Atrazine	SC705	MP, HV	Watershed	2023
5	Kisiwa Creek Near Halstead	Aquatic Life	Atrazine	SC703	HV, RN	Watershed	2023
5	Little Arkansas River At Alta Mills	Aquatic Life	Atrazine	SC246	MP, RC, RN	Watershed	2023
5	Little Arkansas River At Valley Center	Aquatic Life	Atrazine	SC282	HV, SG	Watershed	2023
5	Little Arkansas River At Wichita	Aquatic Life	Atrazine	SC728	SG, SU	Watershed	2023
5	Black Kettle Creek Near Halstead	Aquatic Life	Copper	SC705	MP, HV	Watershed	2023
5	Black Kettle Creek Near Halstead	Aquatic Life	Dissolved Oxygen	SC705	MP, HV	Watershed	2022
5	Emma Creek Near Sedgwick	Aquatic Life	Dissolved Oxygen	SC534	MP, MN, HV	Watershed	2022
5	Kisiwa Creek Near Halstead	Aquatic Life	Dissolved Oxygen	SC703	HV, RN	Watershed	2022
5	Buhler City Lake	Aquatic Life	Eutrophication	LM050701	RN	Lake	2023
5	McPherson Wetlands	Aquatic Life	Eutrophication	LM014701	MP	Wetland	2023

11030012
Little Arkansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Little Arkansas River At Wichita	Food Procurement	Mercury	SC728	SG, SU	Watershed	2023
5	Little Arkansas River At Wichita	Food Procurement	PCB	SC728	SG, SU	Watershed	2023
5	Little Arkansas River At Alta Mills	Aquatic Life	Selenium	SC246	MP, RC, RN	Watershed	2023
5	Turkey Creek Near Alta Mills	Aquatic Life	Selenium	SC533	MP, RC, RN	Watershed	2023
5	Black Kettle Creek Near Halstead	Aquatic Life	Total Phosphorus	SC705	MP, HV	Watershed	2020
5	Emma Creek Near Sedgwick	Aquatic Life	Total Phosphorus	SC534	MP, MN, HV	Watershed	2020
5	Kisiwa Creek Near Halstead	Aquatic Life	Total Phosphorus	SC703	HV, RN	Watershed	2020
5	Little Arkansas River At Alta Mills	Aquatic Life	Total Phosphorus	SC246	MP, RC, RN	Watershed	2020
5	Little Arkansas River At Valley Center	Aquatic Life	Total Phosphorus	SC282	HV, SG	Watershed	2020
5	Little Arkansas River At Wichita	Aquatic Life	Total Phosphorus	SC728	SG, SU	Watershed	2017
4b	Emma Creek Near Sedgwick	Aquatic Life	Atrazine	SC534	MP, MN, HV	Watershed	Low
4b	Sand Creek Near Sedgwick	Aquatic Life	Atrazine	SC535	MN, HV	Watershed	Low
4b	Turkey Creek Near Alta Mills	Aquatic Life	Atrazine	SC533	MP, RC, RN	Watershed	Low
4a	Black Kettle Creek Near Halstead	Aquatic Life	Biology	SC705	MP, HV	Watershed	High
4a	Emma Creek Near Sedgwick	Aquatic Life	Biology	SC534	MP, MN, HV	Watershed	High
4a	Kisiwa Creek Near Halstead	Aquatic Life	Biology	SC703	HV, RN	Watershed	High
4a	Little Arkansas River At Alta Mills	Aquatic Life	Biology	SC246	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Valley Center	Aquatic Life	Biology	SC282	HV, SG	Watershed	High
4a	Little Arkansas River At Wichita	Aquatic Life	Biology	SC728	SG, SU	Watershed	High
4a	Sand Creek Near Sedgwick	Aquatic Life	Biology	SC535	MN, HV	Watershed	High
4a	Turkey Creek Near Alta Mills	Aquatic Life	Biology	SC533	MP, RC, RN	Watershed	High
4a	Black Kettle Creek Near Halstead	Aquatic Life	Biology/Sediment	SC705	MP, HV	Watershed	High
4a	Emma Creek Near Sedgwick	Aquatic Life	Biology/Sediment	SC534	MP, MN, HV	Watershed	High
4a	Kisiwa Creek Near Halstead	Aquatic Life	Biology/Sediment	SC703	HV, RN	Watershed	High
4a	Little Arkansas River At Alta Mills	Aquatic Life	Biology/Sediment	SC246	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Valley Center	Aquatic Life	Biology/Sediment	SC282	HV, SG	Watershed	High
4a	Little Arkansas River At Wichita	Aquatic Life	Biology/Sediment	SC728	SG, SU	Watershed	High
4a	Sand Creek Near Sedgwick	Aquatic Life	Biology/Sediment	SC535	MN, HV	Watershed	High

11030012
Little Arkansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Turkey Creek Near Alta Mills	Aquatic Life	Biology/Sediment	SC533	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Alta Mills	Water Supply	Chloride	SC246	MP, RC, RN	Watershed	Medium
4a	Turkey Creek Near Alta Mills	Water Supply	Chloride	SC533	MP, RC, RN	Watershed	Medium
4a	Mingenback Lake	Aquatic Life	Dissolved Oxygen	LM064701	MP	Lake	Medium
4a	Sand Creek Near Sedgwick	Aquatic Life	Dissolved Oxygen	SC535	MN, HV	Watershed	Medium
4a	Turkey Creek Near Alta Mills	Aquatic Life	Dissolved Oxygen	SC533	MP, RC, RN	Watershed	High
4a	Emma Creek Near Sedgwick	Recreation	E. coli	SC534	MP, MN, HV	Watershed	High
4a	Little Arkansas River At Alta Mills	Recreation	E. coli	SC246	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Valley Center	Recreation	E. coli	SC282	HV, SG	Watershed	High
4a	Little Arkansas River At Wichita	Recreation	E. coli	SC728	SG, SU	Watershed	High
4a	Sand Creek Near Sedgwick	Recreation	E. coli	SC535	MN, HV	Watershed	High
4a	Turkey Creek Near Alta Mills	Recreation	E. coli	SC533	MP, RC, RN	Watershed	High
4a	Dillon Park Lakes	Aquatic Life	Eutrophication	LM063101	RN	Lake	Medium
4a	Harvey Co. Camp Hawk Lake	Aquatic Life	Eutrophication	LM063401	HV	Lake	Low
4a	Harvey Co. West Park Lake	Aquatic Life	Eutrophication	LM049001	HV	Lake	Low
4a	Mingenback Lake	Aquatic Life	Eutrophication	LM064701	MP	Lake	Medium
4a	Newton City Park Lake	Aquatic Life	Eutrophication	LM064201	HV	Lake	High
4a	Sand Creek Near Sedgwick	Water Supply	Nitrate	SC535	MN, HV	Watershed	High
4a	Dillon Park Lakes	Aquatic Life	pH	LM063101	RN	Lake	Medium
4a	Harvey Co. Camp Hawk Lake	Water Supply	Siltation	LM063401	HV	Lake	Low
4a	Sand Creek Near Sedgwick	Aquatic Life	Total Phosphorus	SC535	MN, HV	Watershed	High
4a	Turkey Creek Near Alta Mills	Aquatic Life	Total Phosphorus	SC533	MP, RC, RN	Watershed	High
4a	Black Kettle Creek Near Halstead	Aquatic Life	Total Suspended Solids	SC705	MP, HV	Watershed	High
4a	Kisiwa Creek Near Halstead	Aquatic Life	Total Suspended Solids	SC703	HV, RN	Watershed	High
4a	Little Arkansas River At Alta Mills	Aquatic Life	Total Suspended Solids	SC246	MP, RC, RN	Watershed	High
4a	Little Arkansas River At Valley Center	Aquatic Life	Total Suspended Solids	SC282	HV, SG	Watershed	High
4a	Little Arkansas River At Wichita	Aquatic Life	Total Suspended Solids	SC728	SG, SU	Watershed	High
4a	Turkey Creek Near Alta Mills	Aquatic Life	Total Suspended Solids	SC533	MP, RC, RN	Watershed	High

11030012

Little Arkansas

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Inman Lake	Aquatic Life	Copper	LM050301	MP	Lake	
3	Harvey Co. West Park Lake	Aquatic Life	Dissolved Oxygen	LM049001	HV	Lake	
3	Inman Lake	Aquatic Life	Lead	LM050301	MP	Lake	
3	Inman Lake	Water Supply	Siltation	LM050301	MP	Lake	
3	Mingenback Lake	Water Supply	Siltation	LM064701	MP	Lake	

11030013

Middle Arkansas-Slate

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Slate Creek Near Wellington	Water Supply	Arsenic	SC528	SU	Watershed	2023
5	Arkansas River Near Arkansas City	Aquatic Life	Atrazine	SC218	SU, CL	Watershed	2023
5	Cowskin Creek At Wichita	Aquatic Life	Atrazine	SC730	SG, SU	Watershed	2023
5	Slate Creek Near Wellington	Aquatic Life	Atrazine	SC528	SU	Watershed	2023
5	Slate Creek Near Wellington	Aquatic Life	Biology	SC528	SU	Watershed	2023
5	Cowskin Creek Near Belle Plaine	Recreation	E. coli	SC702	SG, SU	Watershed	2023
5	Chisholm Creek Park Lake	Aquatic Life	Eutrophication	LM064601	SG	Lake	2023
5	Colwich City Lake	Aquatic Life	Eutrophication	LM017501	SG	Lake	2023
5	Eagle Lake (Belaire Lake)	Aquatic Life	Eutrophication	LM022101	SG	Lake	2023
5	Emery Park Lake	Aquatic Life	Eutrophication	LM063201	SG	Lake	2023
5	Hargis Lake	Aquatic Life	Eutrophication	LM039901	SU	Lake	2023
5	Harrison Park Lake	Aquatic Life	Eutrophication	LM022301	SG	Lake	2023
5	Moss Lake	Aquatic Life	Eutrophication	LM064101	SG	Lake	2023
5	Riggs Park Lake	Aquatic Life	Eutrophication	LM022401	SG	Lake	2023
5	Arkansas River At Derby	Water Supply	Nitrate	SC281	SG	Watershed	2017
5	Arkansas River At Derby	Food Procurement	PCB	SC281	SG	Watershed	2023
5	Arkansas River At Oxford	Aquatic Life	pH	SC527	SG, SU, CL	Watershed	2022
5	Arkansas River Near Arkansas City	Aquatic Life	pH	SC218	SU, CL	Watershed	2022
5	Arkansas River At Derby	Aquatic Life	Total Phosphorus	SC281	SG	Watershed	2017
5	Arkansas River At Oxford	Aquatic Life	Total Phosphorus	SC527	SG, SU, CL	Watershed	2017
5	Arkansas River At Wichita	Aquatic Life	Total Phosphorus	SC729	SG, SU	Watershed	2017
5	Arkansas River Near Arkansas City	Aquatic Life	Total Phosphorus	SC218	SU, CL	Watershed	2017
5	Cowskin Creek At Wichita	Aquatic Life	Total Phosphorus	SC730	SG, SU	Watershed	2020
5	Cowskin Creek In Wichita-Valley Center Floodway	Aquatic Life	Total Phosphorus	SC288	SG	Watershed	2020

11030013

Middle Arkansas-Slate

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cowskin Creek Near Belle Plaine	Aquatic Life	Total Phosphorus	SC702	SG, SU	Watershed	2020
5	Slate Creek Near Wellington	Aquatic Life	Total Phosphorus	SC528	SU	Watershed	2020
5	Arkansas River At Oxford	Aquatic Life	Total Suspended Solids	SC527	SG, SU, CL	Watershed	2023
5	Arkansas River Near Arkansas City	Aquatic Life	Total Suspended Solids	SC218	SU, CL	Watershed	2023
5	Cowskin Creek Near Belle Plaine	Aquatic Life	Total Suspended Solids	SC702	SG, SU	Watershed	2023
5	Slate Creek Near Wellington	Aquatic Life	Total Suspended Solids	SC528	SU	Watershed	2023
4a	Arkansas River At Derby	Aquatic Life	Biology	SC281	SG	Watershed	Medium
4a	Arkansas River At Wichita	Aquatic Life	Biology	SC729	SG, SU	Watershed	Low
4a	Arkansas River Near Arkansas City	Aquatic Life	Biology	SC218	SU, CL	Watershed	Medium
4a	Cowskin Creek At Wichita	Aquatic Life	Biology	SC730	SG, SU	Watershed	High
4a	Cowskin Creek In Wichita-Valley Center Floodway	Aquatic Life	Biology	SC288	SG	Watershed	High
4a	Arkansas River At Derby	Water Supply	Chloride	SC281	SG	Watershed	Medium
4a	Arkansas River At Oxford	Water Supply	Chloride	SC527	SG, SU, CL	Watershed	Medium
4a	Arkansas River At Wichita	Water Supply	Chloride	SC729	SG, SU	Watershed	Medium
4a	Arkansas River Near Arkansas City	Water Supply	Chloride	SC218	SU, CL	Watershed	Medium
4a	Slate Creek W.A.	Water Supply	Chloride	LM014201	SU	Lake	Medium
4a	Arkansas River At Derby	Recreation	E. coli	SC281	SG	Watershed	High
4a	Arkansas River At Oxford	Recreation	E. coli	SC527	SG, SU, CL	Watershed	High
4a	Arkansas River At Wichita	Recreation	E. coli	SC729	SG, SU	Watershed	High
4a	Cowskin Creek At Wichita	Recreation	E. coli	SC730	SG, SU	Watershed	High
4a	Cowskin Creek In Wichita-Valley Center Floodway	Recreation	E. coli	SC288	SG	Watershed	High
4a	Slate Creek Near Wellington	Recreation	E. coli	SC528	SU	Watershed	High
4a	Cadillac Lake (Pracht Wetland)	Aquatic Life	Eutrophication	LM054101	SG	Lake	Low
4a	Horseshoe Lake	Aquatic Life	Eutrophication	LM063501	SG	Lake	Low
4a	Kid's Lake	Aquatic Life	Eutrophication	LM063601	SG	Lake	Low
4a	Slate Creek W.A.	Aquatic Life	Eutrophication	LM014201	SU	Lake	Medium
4a	Watson Park Lake	Aquatic Life	Eutrophication	LM064401	SG	Lake	Low
4a	Slate Creek W.A.	Aquatic Life	pH	LM014201	SU	Lake	Medium
4a	Slate Creek W.A.	Water Supply	Siltation	LM014201	SU	Lake	Medium
4a	Slate Creek Near Wellington	Water Supply	Sulfate	SC528	SU	Watershed	Low
4a	Slate Creek W.A.	Water Supply	Sulfate	LM014201	SU	Lake	Low

11030013 Middle Arkansas-Slate

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Arkansas River Near Arkansas City	Recreation	E. coli	SC218	SU, CL	Watershed	
3	Vic's Lake	Aquatic Life	Eutrophication	LM064301	SG	Lake	
3	Windmill Lake	Aquatic Life	Eutrophication	LM064501	SG	Lake	

11030014 North Fork Ninnescah

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Cheney Lake	Aquatic Life	Eutrophication	LM017001	RN	Lake	High
4a	North Fork Ninnescah River Near Castleton	Aquatic Life	pH	SC525	SF, RN, PR	Watershed	Low
4a	Cheney Lake	Water Supply	Siltation	LM017001	RN	Lake	High
3	Cheney Lake	Aquatic Life	pH	LM017001	RN	Lake	

11030015 South Fork Ninnescah

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Texas Lake W.A.	Aquatic Life	Dissolved Oxygen	LM053001	PR	Lake	2023
5	Kingman Co. SFL	Aquatic Life	Eutrophication	LM010401	KM	Lake	2023
5	Pratt Co. Lake	Aquatic Life	pH	LM064001	PR	Lake	2023
5	South Fork Ninnescah River Near Murdock	Aquatic Life	Temperature	SC036	PR, KM	Watershed	2023
4a	Kingman Co. SFL	Recreation	Aquatic Plants	LM010401	KM	Lake	Medium
4a	South Fork Ninnescah River Near Murdock	Water Supply	Chloride	SC036	PR, KM	Watershed	Medium
4a	Kingman Co. SFL	Aquatic Life	Dissolved Oxygen	LM010401	KM	Lake	Medium
4a	Pratt Co. Lake	Aquatic Life	Eutrophication	LM064001	PR	Lake	High
4a	Kingman Co. SFL	Aquatic Life	pH	LM010401	KM	Lake	Medium
3	Lemon Park Lake	Aquatic Life	Eutrophication	LM063901	PR	Lake	

11030016 Ninnescah

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Ninnescah River Near Belle Plaine	Water Supply	Chloride	SC280	SG, KM, SU	Watershed	Medium
4a	Lake Afton	Aquatic Life	Eutrophication	LM049201	SG	Lake	High
3	Ninnescah River Near Belle Plaine	Aquatic Life	Biology/Sediment	SC280	SG, KM, SU	Watershed	
3	Ninnescah River Near Belle Plaine	Recreation	E. coli	SC280	SG, KM, SU	Watershed	

11060001**Kaw Lake**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cowley Co. SFL	Aquatic Life	Eutrophication	LM013401	CL	Lake	2023
3	Grouse Creek Near Cambridge	Aquatic Life	Biology	SC761	CL	Watershed	
3	Grouse Creek Near Silverdale	Aquatic Life	Biology	SC531	CL	Watershed	
3	Beaver Creek Near Maple City	Recreation	E. coli	SC664	CL	Watershed	
3	Grouse Creek Near Silverdale	Recreation	E. coli	SC531	CL	Watershed	

11060002**Upper Salt Fork Arkansas**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Salt Fork Arkansas River Near Hardtner	Aquatic Life	Temperature	SC591	BA, CM	Watershed	2023
4a	Salt Fork Arkansas River Near Hardtner	Water Supply	Chloride	SC591	BA, CM	Watershed	Low
4a	Mule Creek Near Aetna	Recreation	Fecal Coli	SC622	KW, BA, CM	Watershed	Medium

11060003**Medicine Lodge**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Barber Co. SFL	Water Supply	Sulfate	LM013101	BA	Lake	2023
4a	Barber Co. SFL	Aquatic Life	Dissolved Oxygen	LM013101	BA	Lake	Low
4a	Medicine Lodge River Near Belvidere	Recreation	Fecal Coli	SC588	KW	Watershed	High
4a	Medicine Lodge River Near Medicine Lodge	Recreation	Fecal Coli	SC589	PR, KW, BA	Watershed	High
4a	Medicine Lodge River Near Medicine Lodge	Water Supply	Sulfate	SC589	PR, KW, BA	Watershed	Low
3	Elm Creek Near Medicine Lodge	Recreation	E. coli	SC590	PR, BA	Watershed	

11060004**Lower Salt Fork Arkansas**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Sandy Creek Near Ruella	Aquatic Life	Temperature	SC619	HP	Watershed	2023

11060005**Chikaskia**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Bluff Creek Near Caldwell	Water Supply	Arsenic	SC530	HP	Watershed	2023
5	Fall Creek Near Caldwell	Water Supply	Arsenic	SC662	SU	Watershed	2023
5	Isabel W.A.	Aquatic Life	Copper	LM014301	PR	Lake	2023
5	Isabel W.A.	Aquatic Life	Dissolved Oxygen	LM014301	PR	Lake	2023

11060005**Chikaskia**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Bluff Creek Near Bluff City	Aquatic Life	Total Phosphorus	SC618	HP	Watershed	2023
5	Shoofly Creek Near Hunnewell	Aquatic Life	Total Phosphorus	SC663	SU	Watershed	2023
4a	Anthony City Lake	Aquatic Life	Dissolved Oxygen	LM048801	HP	Lake	High
4a	Bluff Creek Near Bluff City	Recreation	E. coli	SC618	HP	Watershed	High
4a	Bluff Creek Near Caldwell	Recreation	E. coli	SC530	HP	Watershed	High
4a	Chikaskia River Near Corbin	Recreation	E. coli	SC529	SU	Watershed	High
4a	Anthony City Lake	Aquatic Life	Eutrophication	LM048801	HP	Lake	High
4a	Isabel W.A.	Aquatic Life	Eutrophication	LM014301	PR	Lake	Low
4a	Fall Creek Near Caldwell	Recreation	Fecal Coli	SC662	SU	Watershed	High
4a	Anthony City Lake	Aquatic Life	pH	LM048801	HP	Lake	High
4a	Isabel W.A.	Aquatic Life	pH	LM014301	PR	Lake	Low
4a	Bluff Creek Near Bluff City	Aquatic Life	Selenium	SC618	HP	Watershed	Medium
4a	Wellington Lake	Aquatic Life	Selenium	LM042201	SU	Lake	Low
4a	Anthony City Lake	Water Supply	Siltation	LM048801	HP	Lake	High
4a	Wellington Lake	Water Supply	Siltation	LM042201	SU	Lake	Medium
3	Shoofly Creek Near Hunnewell	Recreation	E. coli	SC663	SU	Watershed	

Marais des Cygnes River Basin**10290101****Upper Marais Des Cygnes**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	110 Mile Creek Near Scranton	Aquatic Life	Atrazine	SC633	OS, FR	Watershed	2023
5	Dragoon Creek Near Burlingame	Aquatic Life	Atrazine	SC577	WB, OS	Watershed	2023
5	Switzler Creek Near Burlingame	Aquatic Life	Atrazine	SC687	OS	Watershed	2023
5	Pottawatomie Creek Near Osawatomie	Aquatic Life	Biology	SC556	FR, AN	Watershed	2022
5	Appanoose Creek Near Richter	Aquatic Life	Dissolved Oxygen	SC692	DG, OS, FR	Watershed	2022
5	Richmond City Lake	Aquatic Life	Dissolved Oxygen	LM046801	FR	Lake	2022
5	Salt Creek	Recreation	E. coli	NPDES24821	OS	Facility	2023
5	Salt Creek Near Lyndon	Recreation	E. coli	SC578	OS, FR	Watershed	2023
5	Garnett North Lake	Aquatic Life	Eutrophication	LM040601	AN	Lake	2022
5	Osawatomie City Lake	Aquatic Life	Eutrophication	LM066201	MI	Lake	2023
5	Richmond City Lake	Aquatic Life	Eutrophication	LM046801	FR	Lake	2022

10290101
Upper Marais Des Cygnes

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Appanoose Creek Near Richter	Aquatic Life	Lead	SC692	DG, OS, FR	Watershed	2023
5	Westphalia Lake	Water Supply	Siltation	LM066901	AN	Lake	2023
4a	Spring Creek Park Lake	Recreation	Aquatic Plants	LM066801	DG	Lake	Low
4a	Salt Creek Near Lyndon	Aquatic Life	Atrazine	SC578	OS, FR	Watershed	Low
4a	110 Mile Creek Near Scranton	Aquatic Life	Dissolved Oxygen	SC633	OS, FR	Watershed	High
4a	One Hundred Forty Two Mile Creek Near Reading	Aquatic Life	Dissolved Oxygen	SC579	LY	Watershed	High
4a	Ottawa Creek Near Ottawa	Aquatic Life	Dissolved Oxygen	SC616	DG, FR	Watershed	High
4a	Pottawatomie Creek Near Osawatomie	Aquatic Life	Dissolved Oxygen	SC556	FR, AN	Watershed	High
4a	Salt Creek Near Lyndon	Aquatic Life	Dissolved Oxygen	SC578	OS, FR	Watershed	Low
4a	Switzler Creek Near Burlingame	Aquatic Life	Dissolved Oxygen	SC687	OS	Watershed	High
4a	Marais Des Cygnes River Near Ottawa	Recreation	E. coli	SC270	DG, FR	Watershed	High
4a	Marais Des Cygnes River Near Reading	Recreation	E. coli	SC742	WB, LY	Watershed	High
4a	Cedar Creek Lake	Aquatic Life	Eutrophication	LM040701	AN	Lake	High
4a	Crystal Lake	Aquatic Life	Eutrophication	LM064901	AN	Lake	Medium
4a	Lebo City Park Lake	Aquatic Life	Eutrophication	LM065601	CF	Lake	Low
4a	Osage City Reservoir	Aquatic Life	Eutrophication	LM066101	OS	Lake	Low
4a	Pomona Lake	Aquatic Life	Eutrophication	LM028001	OS	Lake	High
4a	Spring Creek Park Lake	Aquatic Life	Eutrophication	LM066801	DG	Lake	Low
4a	One Hundred Forty Two Mile Creek Near Reading	Recreation	Fecal Coli	SC579	LY	Watershed	High
4a	Cedar Creek Lake	Water Supply	Siltation	LM040701	AN	Lake	High
4a	Pomona Lake	Water Supply	Siltation	LM028001	OS	Lake	High
3	Lebo City Lake	Aquatic Life	Copper	LM041201	CF	Lake	
3	Dragoon Creek Near Burlingame	Recreation	E. coli	SC577	WB, OS	Watershed	
3	Marais Des Cygnes River Near Quenemo	Recreation	E. coli	SC720	OS, CF	Watershed	
3	Marais Des Cygnes River Near Richter	Recreation	E. coli	SC555	OS, FR	Watershed	
3	Ottawa Creek Near Ottawa	Recreation	E. coli	SC616	DG, FR	Watershed	
3	Pottawatomie Creek Near Osawatomie	Recreation	E. coli	SC556	FR, AN	Watershed	

Priority

10290102
Lower Marais Des Cygnes

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Marais Des Cygnes W.A.	Water Supply	Arsenic	LM053201	LN	Lake	2023
5	Marais Des Cygnes River Near Henson	Aquatic Life	Atrazine	SC743	FR, MI	Watershed	2023
5	Bull Creek Near Henson	Recreation	E. coli	SC557	MI	Watershed	2023
5	Critzer Lake	Aquatic Life	Eutrophication	LM051301	LN	Lake	2023
5	Miola Lake	Aquatic Life	Eutrophication	LM051001	MI	Lake	2023
5	Pleasanton Lake #1	Aquatic Life	Eutrophication	LM066401	LN	Lake	2023
5	Pleasanton Lake #2	Aquatic Life	Eutrophication	LM066501	LN	Lake	2023
5	Spring Hill City Lake	Aquatic Life	Eutrophication	LM073501	JO	Lake	2023
4a	Mound City Lake	Recreation	Aquatic Plants	LM051401	LN	Lake	Medium
4a	Edgerton City Lake	Aquatic Life	Atrazine	LM065001	JO	Lake	Medium
4a	Big Sugar Creek Near Trading Post	Aquatic Life	Dissolved Oxygen	SC558	AN, LN	Watershed	Medium
4a	Marais Des Cygnes W.A.	Aquatic Life	Dissolved Oxygen	LM053201	LN	Lake	High
4a	Middle Creek Near New Lancaster	Aquatic Life	Dissolved Oxygen	SC697	MI	Watershed	High
4a	Mound City Lake	Aquatic Life	Dissolved Oxygen	LM051401	LN	Lake	Medium
4a	Edgerton City Lake	Aquatic Life	Eutrophication	LM065001	JO	Lake	Medium
4a	Hillsdale Lake	Aquatic Life	Eutrophication	LM035001	JO, MI	Lake	High
4a	Louisburg SFL	Aquatic Life	Eutrophication	LM043801	MI	Lake	High
4a	Marais Des Cygnes W.A.	Aquatic Life	Eutrophication	LM053201	LN	Lake	High
4a	Miami Co. SFL	Aquatic Life	Eutrophication	LM043601	MI	Lake	Medium
4a	Mound City Lake	Aquatic Life	Eutrophication	LM051401	LN	Lake	Medium
4a	Pleasanton Reservoir	Aquatic Life	Eutrophication	LM044201	LN	Lake	High
4a	Marais Des Cygnes W.A.	Aquatic Life	pH	LM053201	LN	Lake	High
4a	Miami Co. SFL	Aquatic Life	pH	LM043601	MI	Lake	Medium
4a	Mound City Lake	Aquatic Life	pH	LM051401	LN	Lake	Medium
4a	Marais Des Cygnes W.A.	Water Supply	Siltation	LM053201	LN	Lake	High
3	Marais Des Cygnes W.A.	Aquatic Life	Atrazine	LM053201	LN	Lake	
3	Marais Des Cygnes Near Trading Post	Aquatic Life	Biology	SC745	LN	Watershed	
3	Big Sugar Creek Near Trading Post	Recreation	E. coli	SC558	AN, LN	Watershed	
3	Marais Des Cygnes Near Trading Post	Recreation	E. coli	SC206	MI, LN	Watershed	
3	Marais Des Cygnes Near Trading Post	Recreation	E. coli	SC745	LN	Watershed	
3	Middle Creek Near New Lancaster	Recreation	E. coli	SC697	MI	Watershed	

10290102
Lower Marais Des Cygnes

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	La Cygne Lake	Aquatic Life	Eutrophication	LM044002	MI, LN	Lake	
3	Paola City Lake	Aquatic Life	Eutrophication	LM073201	MI	Lake	

10290103
Little Osage

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Little Osage River Near Fulton	Aquatic Life	Biology	SC207	AN, LN, AL, BB	Watershed	2023
5	Little Osage River Near Fulton	Aquatic Life	Dissolved Oxygen	SC207	AN, LN, AL, BB	Watershed	2023
4a	Little Osage River Near Fulton	Recreation	E. coli	SC207	AN, LN, AL, BB	Watershed	Medium
4a	Prescott City Lake	Aquatic Life	Eutrophication	LM066601	LN	Lake	Low

10290104
Marmaton

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Marmaton River	Aquatic Life	Biology	SB324	BB	Watershed	2023
5	Rock Creek Lake	Aquatic Life	Dissolved Oxygen	LM045201	BB	Lake	2023
5	Marmaton River Near Fort Scott	Recreation	E. coli	SC208	BB	Watershed	2023
5	Gunn Park East Lake	Aquatic Life	Eutrophication	LM065401	BB	Lake	2023
5	Gunn Park West Lake	Aquatic Life	Eutrophication	LM065501	BB	Lake	2023
5	Drywood Creek Near Garland	Aquatic Life	Selenium	SC617	BB, CR	Watershed	2023
5	Drywood Creek Near Garland	Water Supply	Sulfate	SC617	BB, CR	Watershed	2023
4a	Marmaton River Near Fort Scott	Aquatic Life	Biology	SC208	BB	Watershed	High
4a	Bourbon Co. SFL	Aquatic Life	Dissolved Oxygen	LM013301	BB	Lake	Medium
4a	Drywood Creek Near Garland	Aquatic Life	Dissolved Oxygen	SC617	BB, CR	Watershed	Low
4a	Marmaton River Near Fort Scott	Aquatic Life	Dissolved Oxygen	SC208	BB	Watershed	High
4a	Marmaton River Near Fort Scott	Aquatic Life	Dissolved Oxygen	SC559	AL, BB	Watershed	High
4a	Bourbon Co. SFL	Aquatic Life	Eutrophication	LM013301	BB	Lake	Medium
4a	Bronson City Lake	Aquatic Life	Eutrophication	LM046201	BB	Lake	Medium
4a	Elm Creek Lake	Aquatic Life	Eutrophication	LM044801	BB	Lake	Low
4a	Lake Crawford State Park #2	Aquatic Life	Eutrophication	LM011101	CR	Lake	High
4a	Rock Creek Lake	Aquatic Life	Eutrophication	LM045201	BB	Lake	High
4a	Bourbon Co. SFL	Aquatic Life	pH	LM013301	BB	Lake	Medium

10290104
Marmaton

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Marmaton River Near Fort Scott	Aquatic Life	Biology	SC559	AL, BB	Watershed	
3	Drywood Creek Near Garland	Recreation	E. coli	SC617	BB, CR	Watershed	

Missouri River Basin

10240005
Tarkio-Wolf

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Wolf River Near Sparks	Aquatic Life	Atrazine	SC201	BR, DP	Watershed	2023
4a	Brown Co. SFL	Recreation	Aquatic Plants	LM010301	BR	Lake	Medium
4a	Troy Fair Lake	Recreation	Aquatic Plants	LM073801	DP	Lake	Low
4a	Hiawatha City Lake	Aquatic Life	Atrazine	LM011601	BR	Lake	Medium
4a	Wolf River Near Sparks	Aquatic Life	Biology	SC201	BR, DP	Watershed	High
4a	Brown Co. SFL	Aquatic Life	Dissolved Oxygen	LM010301	BR	Lake	Medium
4a	Wolf River Near Sparks	Recreation	E. coli	SC201	BR, DP	Watershed	High
4a	Brown Co. SFL	Aquatic Life	Eutrophication	LM010301	BR	Lake	Medium
4a	Hiawatha City Lake	Aquatic Life	Eutrophication	LM011601	BR	Lake	Medium
4a	Troy Fair Lake	Aquatic Life	Eutrophication	LM073801	DP	Lake	Low
4a	Brown Co. SFL	Aquatic Life	pH	LM010301	BR	Lake	Medium
3	Mosquito Creek Near Troy	Recreation	E. coli	SC722	DP	Watershed	

10240007
South Fork Big Nemaha

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	South Fork Nemaha River Near Bern	Water Supply	Arsenic	SC234	NM, JA	Watershed	2023
5	Sabetha City Lake	Aquatic Life	Atrazine	LM011501	NM	Lake	2023
5	South Fork Nemaha River Near Bern	Aquatic Life	Atrazine	SC234	NM, JA	Watershed	2023
5	South Fork Nemaha River Near Seneca	Recreation	E. coli	SC682	NM, PT	Watershed	2023
5	Pole Creek Near St. Benedict	Aquatic Life	Total Phosphorus	SC756	NM	Watershed	2023
5	South Fork Nemaha River Near Bern	Aquatic Life	Total Phosphorus	SC234	NM, JA	Watershed	2023
5	Turkey Creek Near Bern	Aquatic Life	Total Phosphorus	SC601	MS, NM	Watershed	2023
4a	Pole Creek Near St. Benedict	Aquatic Life	Atrazine	SC756	NM	Watershed	Medium
4a	Turkey Creek Near Bern	Aquatic Life	Atrazine	SC601	MS, NM	Watershed	Medium
4a	South Fork Nemaha River Near Bern	Aquatic Life	Biology	SC234	NM, JA	Watershed	High

10240007 South Fork Big Nemaha

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	South Fork Nemaha River Near Bern	Recreation	E. coli	SC234	NM, JA	Watershed	High
4a	Sabetha City Lake	Aquatic Life	Eutrophication	LM011501	NM	Lake	Low
4a	Turkey Creek Near Bern	Recreation	Fecal Coli	SC601	MS, NM	Watershed	Low
4a	South Fork Nemaha River Near Seneca	Aquatic Life	Selenium	SC682	NM, PT	Watershed	Low
3	South Fork Nemaha River Near Seneca	Aquatic Life	Atrazine	SC682	NM, PT	Watershed	
3	Nemaha Co. SFL/W.A.	Aquatic Life	Eutrophication	LM010801	NM	Lake	
3	Pole Creek Near St. Benedict	Aquatic Life	Total Suspended Solids	SC756	NM	Watershed	

10240008 Big Nemaha

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Pony Creek Near Reserve	Aquatic Life	Atrazine	SC291	NM, BR	Watershed	2023
5	Roys Creek Near Reserve	Aquatic Life	Atrazine	SC552	BR, DP	Watershed	2023
5	Walnut Creek Near Reserve	Aquatic Life	Atrazine	SC292	BR, DP	Watershed	2023
5	Walnut Creek Near Reserve	Aquatic Life	Total Phosphorus	SC292	BR, DP	Watershed	2023
5	Walnut Creek Near Reserve	Aquatic Life	Total Suspended Solids	SC292	BR, DP	Watershed	2023
4a	Pony Creek Lake	Aquatic Life	Eutrophication	LM073001	BR	Lake	High
4a	Walnut Creek Near Reserve	Recreation	Fecal Coli	SC292	BR, DP	Watershed	High
3	Pony Creek Near Reserve	Recreation	E. coli	SC291	NM, BR	Watershed	
3	Roys Creek Near Reserve	Water Supply	Nitrate	SC552	BR, DP	Watershed	

10240011 Independence-Sugar

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Atchison Co. SFL	Aquatic Life	Atrazine	LM012601	AT	Lake	2023
5	Lake Warnock (Atchison City Lake)	Aquatic Life	Eutrophication	LM039801	AT	Lake	2023
5	Merrit Lake	Aquatic Life	Eutrophication	LM020801	LV	Lake	2023
5	Smith Lake	Aquatic Life	Eutrophication	LM020701	LV	Lake	2023
4a	Atchison Co. SFL	Recreation	Aquatic Plants	LM012601	AT	Lake	Low
4a	Atchison Co. SFL	Aquatic Life	Dissolved Oxygen	LM012601	AT	Lake	Low
4a	Atchison Co. SFL	Aquatic Life	Eutrophication	LM012601	AT	Lake	Medium
4a	Big Eleven Lake	Aquatic Life	Eutrophication	LM067101	WY	Lake	Low
4a	Jerry's Lake	Aquatic Life	Eutrophication	LM067801	LV	Lake	Low
4a	Lansing City Lake	Aquatic Life	Eutrophication	LM067201	LV	Lake	Low

10240011
Independence-Sugar

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Wyandotte Co. Lake	Aquatic Life	Eutrophication	LM042401	WY	Lake	High
4a	Atchison Co. SFL	Aquatic Life	pH	LM012601	AT	Lake	Medium
4a	Lansing City Lake	Aquatic Life	pH	LM067201	LV	Lake	Low
4a	Atchison Co. SFL	Water Supply	Siltation	LM012601	AT	Lake	High
3	Lansing City Lake	Aquatic Life	Copper	LM067201	LV	Lake	
3	Independence Creek Near Atchison	Recreation	E. coli	SC553	DP, AT	Watershed	

10300101
Lower Missouri-Crooked

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Indian Creek Near Leawood	Aquatic Life	Biology	SC204	JO	Watershed	2023
5	Indian Creek Near Leawood	Water Supply	Chloride	SC204	JO	Watershed	2023
5	Heritage Park Lake	Aquatic Life	Eutrophication	LM062401	JO	Lake	2023
5	Blue River Near Stanley	Food Procurement	Mercury	SC205	JO	Watershed	2023
5	Indian Creek Near Leawood	Aquatic Life	Total Phosphorus	SC204	JO	Watershed	2023
4a	Blue River Near Stanley	Aquatic Life	Biology	SC205	JO	Watershed	Medium
4a	Blue River Near Stanley	Recreation	E. coli	SC205	JO	Watershed	Medium
4a	Indian Creek Near Leawood	Recreation	E. coli	SC204	JO	Watershed	Medium
4a	South Lake Park	Aquatic Life	Eutrophication	LM067501	JO	Lake	Low
4a	Indian Creek Near Leawood	Water Supply	Nitrate	SC204	JO	Watershed	High
3	Blue River Near Stanley	Aquatic Life	Diazinon	SC205	JO	Watershed	
3	Indian Creek Near Leawood	Aquatic Life	Diazinon	SC204	JO	Watershed	
3	Stohl Park Lake	Aquatic Life	Lead	LM062801	JO	Lake	

Neosho River Basin

11070201
Neosho Headwaters

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Eagle Creek Near Olpe	Aquatic Life	Atrazine	SC634	LY	Watershed	2023
5	Munkers Creek Near Council Grove	Aquatic Life	Dissolved Oxygen	SC631	WB, MR, LY	Watershed	2022
5	Flint Hills N.W.R.	Water Supply	Siltation	LM072401	CF	Lake	2023
4a	Neosho River Near Parkerville	Aquatic Life	Copper	SC637	MR	Watershed	Low
4a	Allen Creek Near Emporia	Aquatic Life	Dissolved Oxygen	SC628	LY	Watershed	Medium
4a	Eagle Creek Near Olpe	Aquatic Life	Dissolved Oxygen	SC634	LY	Watershed	High
4a	Council Grove Lake	Aquatic Life	Eutrophication	LM022001	MR	Lake	High

11070201 Neosho Headwaters

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	John Redmond Lake	Aquatic Life	Eutrophication	LM026001	LY, CF	Lake	Medium
4a	Jones Park Lake	Aquatic Life	Eutrophication	LM068701	LY	Lake	Low
4a	Lake Kahola	Aquatic Life	Eutrophication	LM043401	MR	Lake	Medium
4a	Olpe City Lake	Aquatic Life	Eutrophication	LM041001	LY	Lake	High
4a	Neosho River At Parkerville	Recreation	Fecal Coli	SC675	MR	Watershed	Medium
4a	Council Grove Lake	Water Supply	Siltation	LM022001	MR	Lake	High
4a	John Redmond Lake	Water Supply	Siltation	LM026001	LY, CF	Lake	Medium
4a	Olpe City Lake	Water Supply	Siltation	LM041001	LY	Lake	High
4a	Neosho River At Neosho Rapids	Aquatic Life	Total Phosphorus	SC273	LY	Watershed	High
4a	Neosho River Near Parkerville	Aquatic Life	Total Phosphorus	SC637	MR	Watershed	High
3	Four Mile Creek Near Council Grove	Aquatic Life	Biology	SC630	MR	Watershed	
3	John Redmond Lake	Aquatic Life	Dissolved Oxygen	LM026001	LY, CF	Lake	
3	Neosho River At Neosho Rapids	Recreation	E. coli	SC273	LY	Watershed	
3	Neosho River Near Americus	Recreation	E. coli	SC581	MR, LY	Watershed	

11070202 Upper Cottonwood

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Mud Creek Near Marion	Aquatic Life	Atrazine	SC691	MN	Watershed	2023
5	South Cottonwood River Near Canada	Aquatic Life	Atrazine	SC635	MN, CS	Watershed	2023
5	Hillsboro City Lake	Aquatic Life	Eutrophication	LM020901	MN	Lake	2023
5	Mud Creek Near Marion	Water Supply	Sulfate	SC691	MN	Watershed	2023
5	North Cottonwood River Near Durham	Water Supply	Sulfate	SC636	MP, MN, HV	Watershed	2023
5	South Cottonwood River Near Canada	Aquatic Life	Total Phosphorus	SC635	MN, CS	Watershed	2023
4a	French Creek Near Hillsboro	Aquatic Life	Dissolved Oxygen	SC676	MN	Watershed	Medium
4a	Marion Co. Lake	Aquatic Life	Dissolved Oxygen	LM012101	MN	Lake	Medium
4a	Mud Creek Near Marion	Recreation	E. coli	SC691	MN	Watershed	High
4a	Marion Co. Lake	Aquatic Life	Eutrophication	LM012101	MN	Lake	Medium
4a	Marion Lake	Aquatic Life	Eutrophication	LM020001	MN	Lake	High
4a	Clear Creek Near Marion	Water Supply	Sulfate	SC690	MR, MN	Watershed	Low
4a	Doyle Creek Near Florence	Water Supply	Sulfate	SC120	HV	Watershed	Low
3	Clear Creek Near Marion	Aquatic Life	Alachlor	SC690	MR, MN	Watershed	

11070202 Upper Cottonwood

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Clear Creek Near Marion	Aquatic Life	Atrazine	SC690	MR, MN	Watershed	

11070203 Lower Cottonwood

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cottonwood River Near Elmdale	Aquatic Life	Atrazine	SC627	MN, CS	Watershed	2023
5	Peter Pan Lake	Aquatic Life	Eutrophication	LM068901	LY	Lake	2023
5	Bloody Creek Near Saffordville	Water Supply	Sulfate	SC689	CS	Watershed	2023
5	Cottonwood River Near Elmdale	Aquatic Life	Total Suspended Solids	SC627	MN, CS	Watershed	2023
5	Cottonwood River Near Plymouth	Aquatic Life	Total Suspended Solids	SC275	CS	Watershed	2023
4a	Fox Creek Near Strong City	Aquatic Life	Biology	SC718	CS	Watershed	Medium
4a	Palmer Creek Near Strong City	Aquatic Life	Biology	SC719	CS	Watershed	Medium
4a	South Fork Cottonwood River Near Bazaar	Aquatic Life	Biology	SC582	CS	Watershed	Medium
4a	Cottonwood River Near Elmdale	Water Supply	Sulfate	SC627	MN, CS	Watershed	Low
4a	Cottonwood River Near Emporia	Aquatic Life	Total Phosphorus	SC274	LY, CS	Watershed	High
3	Cottonwood River Near Emporia	Aquatic Life	Biology	SC274	LY, CS	Watershed	
3	Bloody Creek Near Saffordville	Recreation	E. coli	SC689	CS	Watershed	
3	Diamond Creek Near Strong City	Recreation	E. coli	SC625	MR, CS	Watershed	
3	Middle Creek Near Elmdale	Recreation	E. coli	SC626	MN, CS	Watershed	
3	Rock Creek near Bazaar	Aquatic Life	Total Suspended Solids	SC760	CS	Watershed	

11070204 Upper Neosho

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Long Creek Near Le Roy	Aquatic Life	Atrazine	SC695	CF	Watershed	2023
5	Big Creek Near Chanute	Aquatic Life	Dissolved Oxygen	SC611	AL, NO	Watershed	2022
5	Deer Creek Near Iola	Aquatic Life	Dissolved Oxygen	SC609	AN, AL	Watershed	2022
5	Long Creek Near Le Roy	Aquatic Life	Dissolved Oxygen	SC695	CF	Watershed	2022
5	Owl Creek Near Humboldt	Aquatic Life	Dissolved Oxygen	SC610	WO, WL	Watershed	2022
5	Circle Lake	Aquatic Life	Eutrophication	LM021101	WO	Lake	2023
5	Leonard's Lake	Aquatic Life	Eutrophication	LM021301	WO	Lake	2023
5	Neosho Falls City Lake	Aquatic Life	Eutrophication	LM021401	WO	Lake	2023

11070204
Upper Neosho

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Owl Creek Near Humboldt	Aquatic Life	Copper	SC610	WO, WL	Watershed	Low
4a	Chanute Santa Fe Lake	Aquatic Life	Dissolved Oxygen	LM044401	NO	Lake	Medium
4a	Gridley City Lake	Aquatic Life	Dissolved Oxygen	LM045601	CF	Lake	Medium
4a	Turkey Creek Near Le Roy	Recreation	E. coli	SC614	CF, WO	Watershed	High
4a	Chanute Santa Fe Lake	Aquatic Life	Eutrophication	LM044401	NO	Lake	Medium
4a	Gridley City Lake	Aquatic Life	Eutrophication	LM045601	CF	Lake	Medium
4a	Deer Creek Near Iola	Recreation	Fecal Coli	SC609	AN, AL	Watershed	Medium
4a	Chanute Santa Fe Lake	Aquatic Life	pH	LM044401	NO	Lake	Medium
3	Big Creek Near Chanute	Recreation	E. coli	SC611	AL, NO	Watershed	
3	Wolf Creek Lake	Aquatic Life	Selenium	LM039601	CF	Lake	

11070205
Middle Neosho

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Cherry Creek Near Faulkner	Aquatic Life	Atrazine	SC605	CK	Watershed	2023
5	Lightning Creek Near Oswego	Aquatic Life	Atrazine	SC565	CR, CK	Watershed	2023
5	Labette Creek Near Labette	Aquatic Life	Biology	SC564	NO, LB	Watershed	2023
5	Neosho River near Chetopa	Aquatic Life	Biology	SC214	LB	Watershed	2022
5	Labette Creek Near Labette	Aquatic Life	Diazinon	SC564	NO, LB	Watershed	2023
5	Mined Land Lake 14	Aquatic Life	Eutrophication	LM036101	CK	Lake	2023
5	Mined Land Lake 19	Aquatic Life	Eutrophication	LM036501	CK	Lake	2023
5	Mined Land Lake 24	Aquatic Life	Eutrophication	LM037001	CK	Lake	2023
5	Mined Land Lake 25	Aquatic Life	Eutrophication	LM037101	CK	Lake	2023
5	Mined Land Lake 26	Aquatic Life	Eutrophication	LM037201	CK	Lake	2023
5	Mined Land Lake 31	Aquatic Life	Eutrophication	LM037701	CK	Lake	2023
5	Mined Land Lake 34	Aquatic Life	Eutrophication	LM038001	CK	Lake	2023
5	Mined Land Lake 35	Aquatic Life	Eutrophication	LM038101	CK	Lake	2023
5	Mined Land Lake 36	Aquatic Life	Eutrophication	LM038201	CK	Lake	2023
5	Mined Land Lake 40	Aquatic Life	Eutrophication	LM038601	CK	Lake	2023
5	Mined Land Lake 41	Aquatic Life	Eutrophication	LM038701	CK	Lake	2023
5	Mined Land Lake WA	Water Supply	Siltation	LM038841	CK	Lake	2023
5	Cherry Creek Near Faulkner	Water Supply	Sulfate	SC605	CK	Watershed	2023
4a	Bachelor Creek Near Labette	Aquatic Life	Dissolved Oxygen	SC698	LB	Watershed	High
4a	Canville Creek Near Shaw	Aquatic Life	Dissolved Oxygen	SC612	AL, NO	Watershed	Medium
4a	Cherry Creek Near Faulkner	Aquatic Life	Dissolved Oxygen	SC605	CK	Watershed	High

11070205
Middle Neosho

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Labette Creek Near Labette	Aquatic Life	Dissolved Oxygen	SC564	NO, LB	Watershed	High
4a	Mined Land Lake WA	Aquatic Life	Dissolved Oxygen	LM038841	CK	Lake	Low
4a	Neosho Co. SFL	Aquatic Life	Dissolved Oxygen	LM044601	NO	Lake	Medium
4a	Altamont City Main Lake (#1)	Aquatic Life	Eutrophication	LM068001	LB	Lake	Low
4a	Altamont City West Lake (#3)	Aquatic Life	Eutrophication	LM068201	LB	Lake	Low
4a	Bartlett City Lake	Aquatic Life	Eutrophication	LM045401	LB	Lake	Low
4a	Neosho Co. SFL	Aquatic Life	Eutrophication	LM044601	NO	Lake	Medium
4a	Neosho W.A.	Aquatic Life	Eutrophication	LM053401	NO	Lake	Medium
4a	Parsons Lake	Aquatic Life	Eutrophication	LM041401	NO	Lake	Medium
4a	Neosho W.A.	Aquatic Life	Lead	LM053401	NO	Lake	Medium
4a	Neosho Co. SFL	Aquatic Life	pH	LM044601	NO	Lake	Medium
4a	Neosho W.A.	Aquatic Life	pH	LM053401	NO	Lake	Medium
4a	Neosho W.A.	Water Supply	Siltation	LM053401	NO	Lake	Medium
4a	Parsons Lake	Water Supply	Siltation	LM041401	NO	Lake	Medium
4a	Mined Land Lake WA	Water Supply	Sulfate	LM038841	CK	Lake	Low
4a	Mined Land Lake 12	Water Supply	Sulfate	LM035901	CK	Lake	Low
4a	Mined Land Lake 17	Water Supply	Sulfate	LM048201	CK	Lake	Low
4a	Mined Land Lake 22	Water Supply	Sulfate	LM036801	CK	Lake	Low
4a	Mined Land Lake 23	Water Supply	Sulfate	LM036901	CK	Lake	Low
4a	Mined Land Lake 27	Water Supply	Sulfate	LM037301	CK	Lake	Low
4a	Mined Land Lake 30	Water Supply	Sulfate	LM037601	CK	Lake	Low
4a	Mined Land Lake 44	Water Supply	Sulfate	LM048401	CK	Lake	Low
4a	Bachelor Creek Near Labette	Aquatic Life	Total Phosphorus	SC698	LB	Watershed	High
4a	Labette Creek Near Chetopa	Aquatic Life	Total Phosphorus	SC571	LB	Watershed	High
4a	Labette Creek Near Labette	Aquatic Life	Total Phosphorus	SC564	NO, LB	Watershed	High
3	Flat Rock Creek Near St. Paul	Aquatic Life	Atrazine	SC613	BB, NO, CR	Watershed	
3	Neosho W.A.	Aquatic Life	Atrazine	LM053401	NO	Lake	
3	Cherry Creek Near Faulkner	Recreation	E. coli	SC605	CK	Watershed	
3	Labette Creek Near Chetopa	Recreation	E. coli	SC571	LB	Watershed	
3	Labette Creek Near Labette	Recreation	E. coli	SC564	NO, LB	Watershed	
3	Lightning Creek Near Oswego	Recreation	E. coli	SC565	CR, CK	Watershed	

11070206
Lake O' The Cherokees

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Tar Creek At Pitcher, Oklahoma	Aquatic Life	Cadmium	SC110	CK	Watershed	Medium
4a	Tar Creek At Pitcher, Oklahoma	Aquatic Life	Lead	SC110	CK	Watershed	Medium
4a	Tar Creek At Pitcher, Oklahoma	Aquatic Life	Zinc	SC110	CK	Watershed	Medium

11070207
Spring

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Shawnee Creek Near Crestline	Aquatic Life	Atrazine	SC569	CK	Watershed	2023
5	Mined Land Lake 01	Aquatic Life	Eutrophication	LM035101	CR	Lake	2023
5	Mined Land Lake 06	Aquatic Life	Eutrophication	LM047601	CR	Lake	2023
5	Mined Land Lake 08	Aquatic Life	Eutrophication	LM035501	CR	Lake	2023
5	Mined Land Lake 09	Aquatic Life	Eutrophication	LM035601	CK	Lake	2023
5	Short Creek Near Galena	Water Supply	Fluoride	SC570	CK	Watershed	2023
5	Short Creek Near Galena	Aquatic Life	Selenium	SC570	CK	Watershed	2023
5	Turkey Creek Near Joplin, Missouri	Aquatic Life	Total Phosphorus	SC211	MISSOURI	Watershed	
4a	Shoal Creek Near Galena	Aquatic Life	Biology	SC212	CK	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Biology	SC213	CK	Watershed	High
4a	Spring River Near Crestline	Aquatic Life	Biology	SC568	CK	Watershed	High
4a	Shawnee Creek Near Crestline	Aquatic Life	Cadmium	SC569	CK	Watershed	High
4a	Shoal Creek Near Galena	Aquatic Life	Cadmium	SC212	CK	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Cadmium	SC570	CK	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Cadmium	SC213	CK	Watershed	High
4a	Turkey Creek Near Joplin, Missouri	Aquatic Life	Cadmium	SC211	MISSOURI	Watershed	High
4a	Shawnee Creek Near Crestline	Aquatic Life	Copper	SC569	CK	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Copper	SC570	CK	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Copper	SC213	CK	Watershed	High
4a	Spring River Near Crestline	Aquatic Life	Copper	SC568	CK	Watershed	High
4a	Turkey Creek Near Joplin, Missouri	Aquatic Life	Copper	SC211	MISSOURI	Watershed	High
4a	Shawnee Creek Near Crestline	Aquatic Life	Dissolved Oxygen	SC569	CK	Watershed	High
4a	Pittsburg College Lake	Aquatic Life	Eutrophication	LM073301	CR	Lake	Low

11070207**Spring**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Playter's Lake	Aquatic Life	Eutrophication	LM069001	CR	Lake	Low
4a	Shawnee Creek Near Crestline	Aquatic Life	Lead	SC569	CK	Watershed	High
4a	Shoal Creek Near Galena	Aquatic Life	Lead	SC212	CK	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Lead	SC570	CK	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Lead	SC213	CK	Watershed	High
4a	Spring River Near Crestline	Aquatic Life	Lead	SC568	CK	Watershed	High
4a	Turkey Creek Near Joplin, Missouri	Aquatic Life	Lead	SC211	MISSOURI	Watershed	High
4a	Pittsburg College Lake	Aquatic Life	pH	LM073301	CR	Lake	Low
4a	Cow Creek Near Lawton	Water Supply	Sulfate	SC567	CR, CK	Watershed	Low
4a	Mined Land Lake 06	Water Supply	Sulfate	LM047601	CR	Lake	Low
4a	Mined Land Lake 07	Water Supply	Sulfate	LM047801	CR	Lake	Low
4a	Cow Creek Near Lawton	Aquatic Life	Total Phosphorus	SC567	CR, CK	Watershed	High
4a	Shoal Creek Near Galena	Aquatic Life	Total Phosphorus	SC212	CK	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Total Phosphorus	SC570	CK	Watershed	High
4a	Shawnee Creek Near Crestline	Aquatic Life	Zinc	SC569	CK	Watershed	High
4a	Shoal Creek Near Galena	Aquatic Life	Zinc	SC212	CK	Watershed	High
4a	Short Creek Near Galena	Aquatic Life	Zinc	SC570	CK	Watershed	High
4a	Spring River Near Baxter Springs	Aquatic Life	Zinc	SC213	CK	Watershed	High
4a	Spring River Near Crestline	Aquatic Life	Zinc	SC568	CK	Watershed	High
4a	Turkey Creek Near Joplin, Missouri	Aquatic Life	Zinc	SC211	MISSOURI	Watershed	High
4a	Willow Creek Near Baxter Springs	Aquatic Life	Zinc	SC747	CK	Watershed	High
3	Spring River Near Crestline	Recreation	E. coli	SC568	CK	Watershed	
3	Mined Land Lake 04	Aquatic Life	pH	LM035401	CR	Lake	
3	Mined Land Lake 04	Water Supply	Sulfate	LM035401	CR	Lake	

Smoky Hill- Saline River Basin**10260001****Smoky Hill Headwaters**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Willow Creek Near Weskan	Aquatic Life	Dissolved Oxygen	SC724	WA	Watershed	2023
5	Willow Creek Near Weskan	Water Supply	Fluoride	SC724	WA	Watershed	2023

10260002

North Fork Smoky Hill

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Smoky Hill Garden Lake	Aquatic Life	Eutrophication	LM070101	SH	Lake	Low
3	Smoky Hill Garden Lake	Water Supply	Fluoride	LM070101	SH	Lake	

10260003

Upper Smoky Hill

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Smoky Hill River At Elkader	Water Supply	Arsenic	SC224	LG, WA, WH	Watershed	2023
5	Smoky Hill River At Elkader	Aquatic Life	Cadmium	SC224	LG, WA, WH	Watershed	2023
5	Smoky Hill River Near Trego	Recreation	E. coli	SC550	LG, GO, TR	Watershed	2023
5	Smoky Hill River Near Gove	Water Supply	Fluoride	SC739	LG, GO, SC, LE	Watershed	2023
5	Smoky Hill River Near Gove	Water Supply	Gross Alpha	SC739	LG, GO, SC, LE	Watershed	2023
5	Smoky Hill River At Elkader	Aquatic Life	Total Suspended Solids	SC224	LG, WA, WH	Watershed	2023
4a	Smoky Hill River Near Gove	Aquatic Life	Dissolved Oxygen	SC739	LG, GO, SC, LE	Watershed	Medium
4a	Smoky Hill River Near Trego	Aquatic Life	Dissolved Oxygen	SC550	LG, GO, TR	Watershed	Medium
4a	Cedar Bluff Lake	Aquatic Life	Eutrophication	LM013001	TR, NS	Lake	Medium
4a	Smoky Hill River At Elkader	Water Supply	Fluoride	SC224	LG, WA, WH	Watershed	Low
4a	Smoky Hill River At Elkader	Aquatic Life	Selenium	SC224	LG, WA, WH	Watershed	Low
4a	Smoky Hill River Near Gove	Aquatic Life	Selenium	SC739	LG, GO, SC, LE	Watershed	Low
4a	Smoky Hill River Near Trego	Aquatic Life	Selenium	SC550	LG, GO, TR	Watershed	Low
4a	Cedar Bluff Lake	Water Supply	Sulfate	LM013001	TR, NS	Lake	Low
4a	Smoky Hill River At Elkader	Water Supply	Sulfate	SC224	LG, WA, WH	Watershed	Low
4a	Smoky Hill River Near Gove	Water Supply	Sulfate	SC739	LG, GO, SC, LE	Watershed	Low
4a	Smoky Hill River Near Trego	Water Supply	Sulfate	SC550	LG, GO, TR	Watershed	Low

10260004

Ladder Creek

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Lake Scott State Park	Water Supply	Arsenic	LM011201	SC	Lake	2023
5	Lake Scott State Park	Water Supply	Fluoride	LM011201	SC	Lake	2023
4a	Lake Scott State Park	Recreation	Aquatic Plants	LM011201	SC	Lake	High
4a	Lake Scott State Park	Aquatic Life	Eutrophication	LM011201	SC	Lake	High
4a	Lake Scott State Park	Aquatic Life	pH	LM011201	SC	Lake	High

10260006

Middle Smoky Hill

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Fossil Creek Near Russell	Water Supply	Arsenic	SC713	RS	Watershed	2023

10260006
Middle Smoky Hill

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Smoky Hill River Near Russell	Water Supply	Arsenic	SC007	RS, EL, RH	Watershed	2023
5	Smoky Hill River At Ellsworth	Aquatic Life	Biology	SC269	EW	Watershed	2023
5	Coal Creek Near Wilson	Aquatic Life	Dissolved Oxygen	SC733	RS, BT	Watershed	2023
5	Smoky Hill River Near Schoenchen	Water Supply	Gross Alpha	SC539	EL, TR	Watershed	2023
5	Coal Creek Near Wilson	Aquatic Life	Selenium	SC733	RS, BT	Watershed	2023
5	Fossil Creek Near Russell	Aquatic Life	Selenium	SC713	RS	Watershed	2023
5	Landon Creek Near Russell	Aquatic Life	Selenium	SC714	RS, BT	Watershed	2023
5	Sellens Creek Near Russell	Aquatic Life	Selenium	SC736	RS, BT	Watershed	2023
5	Smoky Hill River At Ellsworth	Aquatic Life	Selenium	SC269	EW	Watershed	2023
5	Smoky Hill River Near Russell	Aquatic Life	Selenium	SC007	RS, EL, RH	Watershed	2023
5	Smoky Hill River Near Schoenchen	Aquatic Life	Selenium	SC539	EL, TR	Watershed	2023
5	Smoky Hill River Near Wilson	Aquatic Life	Selenium	SC723	BT	Watershed	2023
5	Fossil Creek Near Russell	Aquatic Life	Total Phosphorus	SC713	RS	Watershed	2023
5	Smoky Hill River Near Russell	Aquatic Life	Total Phosphorus	SC007	RS, EL, RH	Watershed	2023
5	Coal Creek Near Wilson	Aquatic Life	Total Suspended Solids	SC733	RS, BT	Watershed	2023
4a	Beaver Creek Near Dorrance	Water Supply	Chloride	SC734	RS, BT	Watershed	Low
4a	Coal Creek Near Wilson	Water Supply	Chloride	SC733	RS, BT	Watershed	Low
4a	Fossil Creek Near Russell	Water Supply	Chloride	SC713	RS	Watershed	Low
4a	Kanopolis Lake	Water Supply	Chloride	LM016001	EW	Lake	Low
4a	Landon Creek Near Russell	Water Supply	Chloride	SC714	RS, BT	Watershed	Low
4a	Smoky Hill River At Ellsworth	Water Supply	Chloride	SC269	EW	Watershed	Low
4a	Smoky Hill River Near Russell	Water Supply	Chloride	SC007	RS, EL, RH	Watershed	Low
4a	Smoky Hill River Near Wilson	Water Supply	Chloride	SC723	BT	Watershed	Low
4a	Fossil Lake	Aquatic Life	Eutrophication	LM052601	RS	Lake	Low
4a	Kanopolis Lake	Aquatic Life	Eutrophication	LM016001	EW	Lake	High
4a	Fossil Lake	Water Supply	Siltation	LM052601	RS	Lake	Low
4a	Beaver Creek Near Dorrance	Water Supply	Sulfate	SC734	RS, BT	Watershed	Low
4a	Coal Creek Near Wilson	Water Supply	Sulfate	SC733	RS, BT	Watershed	Low
4a	Fossil Creek Near Russell	Water Supply	Sulfate	SC713	RS	Watershed	Low

10260006

Middle Smoky Hill

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Kanopolis Lake	Water Supply	Sulfate	LM016001	EW	Lake	Low
4a	Landon Creek Near Russell	Water Supply	Sulfate	SC714	RS, BT	Watershed	Low
4a	Smoky Hill River At Ellsworth	Water Supply	Sulfate	SC269	EW	Watershed	Low
4a	Smoky Hill River Near Russell	Water Supply	Sulfate	SC007	RS, EL, RH	Watershed	Low
4a	Smoky Hill River Near Schoenchen	Water Supply	Sulfate	SC539	EL, TR	Watershed	Low
4a	Smoky Hill River Near Wilson	Water Supply	Sulfate	SC723	BT	Watershed	Low
3	Sellens Creek Near Russell	Aquatic Life	Atrazine	SC736	RS, BT	Watershed	

10260007

Big Creek

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Big Creek near Russell	Aquatic Life	Biology	SC752	RS, EL	Watershed	2023
5	Big Creek Near Hays	Aquatic Life	Selenium	SC541	GO, EL, TR	Watershed	2023
5	Big Creek Near Munjor	Aquatic Life	Selenium	SC540	EL, TR	Watershed	2023
5	North Fork Big Creek Near Walker	Aquatic Life	Selenium	SC715	EL	Watershed	2023
5	Big Creek Near Munjor	Water Supply	Sulfate	SC540	EL, TR	Watershed	2023
4a	North Fork Big Creek Near Walker	Water Supply	Chloride	SC715	EL	Watershed	Low
4a	Big Creek Near Munjor	Recreation	E. coli	SC540	EL, TR	Watershed	Low
4a	Big Creek Oxbow	Aquatic Life	Eutrophication	LM070301	EL	Lake	Low
4a	Ellis City Lake	Aquatic Life	Eutrophication	LM069601	EL	Lake	Low
4a	Big Creek Near Munjor	Water Supply	Nitrate	SC540	EL, TR	Watershed	Low
4a	Big Creek Near Hays	Aquatic Life	Total Phosphorus	SC541	GO, EL, TR	Watershed	High
4a	Big Creek Near Munjor	Aquatic Life	Total Phosphorus	SC540	EL, TR	Watershed	High
4a	Big Creek near Russell	Aquatic Life	Total Phosphorus	SC752	RS, EL	Watershed	High
4a	North Fork Big Creek Near Walker	Aquatic Life	Total Phosphorus	SC715	EL	Watershed	High
4a	Big Creek Near Munjor	Aquatic Life	Total Suspended Solids	SC540	EL, TR	Watershed	Low
4a	Big Creek near Russell	Aquatic Life	Total Suspended Solids	SC752	RS, EL	Watershed	Low
3	Big Creek Near Hays	Recreation	E. coli	SC541	GO, EL, TR	Watershed	

10260008

Lower Smoky Hill

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Smoky Hill River At Enterprise	Water Supply	Arsenic	SC265	DK, SA	Watershed	2023

10260008

Lower Smoky Hill

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Gypsum Creek Near Solomon	Aquatic Life	Atrazine	SC641	SA, MP	Watershed	2023
5	Smoky Hill River At Junction City	Aquatic Life	Biology	SC264	GE, DK	Watershed	2022
5	Holland Creek Near Sand Springs	Recreation	E. coli	SC642	DK	Watershed	2023
5	Smoky Hill River At Enterprise	Water Supply	Gross Alpha	SC265	DK, SA	Watershed	2023
5	Smoky Hill River Near Salina	Water Supply	Nitrate	SC268	SA, MP	Watershed	2018
5	Holland Creek Near Sand Springs	Aquatic Life	Selenium	SC642	DK	Watershed	2023
5	Herington Reservoir	Water Supply	Siltation	LM047201	DK	Lake	2023
5	Mud Creek Near Abilene	Aquatic Life	Total Phosphorus	SC643	DK	Watershed	2018
5	Sharps Creek Near Freemount	Aquatic Life	Total Phosphorus	SC749	MP, RC	Watershed	2018
5	Smoky Hill River At Enterprise	Aquatic Life	Total Phosphorus	SC265	DK, SA	Watershed	2018
5	Smoky Hill River At Junction City	Aquatic Life	Total Phosphorus	SC264	GE, DK	Watershed	2018
5	Smoky Hill River Near Salina	Aquatic Life	Total Phosphorus	SC268	SA, MP	Watershed	2018
5	Chapman Creek Near Sutphen	Aquatic Life	Total Suspended Solids	SC515	CY, OT, DK	Watershed	2023
4a	McPherson Co. SFL	Recreation	Aquatic Plants	LM013501	MP	Lake	Medium
4a	Herington Reservoir	Aquatic Life	Atrazine	LM047201	DK	Lake	Medium
4a	Smoky Hill River At Enterprise	Aquatic Life	Biology	SC265	DK, SA	Watershed	Medium
4a	Smoky Hill River Near Salina	Aquatic Life	Biology	SC268	SA, MP	Watershed	Medium
4a	Smoky Hill River At Enterprise	Water Supply	Chloride	SC265	DK, SA	Watershed	Low
4a	Smoky Hill River At Junction City	Water Supply	Chloride	SC264	GE, DK	Watershed	Low
4a	Herington Reservoir	Aquatic Life	Dissolved Oxygen	LM047201	DK	Lake	High
4a	Holland Creek Near Sand Springs	Aquatic Life	Dissolved Oxygen	SC642	DK	Watershed	High
4a	McPherson Co. SFL	Aquatic Life	Dissolved Oxygen	LM013501	MP	Lake	Medium
4a	Smoky Hill River Near Mentor	Recreation	E. coli	SC514	SA, EW, MP	Watershed	High
4a	Geary Co. SFL	Aquatic Life	Eutrophication	LM043201	GE	Lake	Medium
4a	Herington City Lake	Aquatic Life	Eutrophication	LM069701	DK	Lake	Low
4a	Herington City Park Lake	Aquatic Life	Eutrophication	LM072801	DK	Lake	Low
4a	Herington Reservoir	Aquatic Life	Eutrophication	LM047201	DK	Lake	High
4a	Lakewood Park Lake	Aquatic Life	Eutrophication	LM069801	SA	Lake	Low
4a	McPherson Co. SFL	Aquatic Life	Eutrophication	LM013501	MP	Lake	Medium

10260008
Lower Smoky Hill

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	McPherson Co. SFL	Aquatic Life	pH	LM013501	MP	Lake	Medium
4a	Carry Creek Near Lyona	Water Supply	Sulfate	SC708	DK	Watershed	Low
4a	Chapman Creek Near Sutphen	Water Supply	Sulfate	SC515	CY, OT, DK	Watershed	Low
4a	Gypsum Creek Near Solomon	Water Supply	Sulfate	SC641	SA, MP	Watershed	Low
4a	Holland Creek Near Sand Springs	Water Supply	Sulfate	SC642	DK	Watershed	Low
4a	Mud Creek Near Abilene	Water Supply	Sulfate	SC643	DK	Watershed	Low
4a	Smoky Hill River At Enterprise	Water Supply	Sulfate	SC265	DK, SA	Watershed	Low
4a	Smoky Hill River At Junction City	Water Supply	Sulfate	SC264	GE, DK	Watershed	Low
4a	Turkey Creek Near Abilene	Water Supply	Sulfate	SC644	DK, MN	Watershed	Low
4a	Smoky Hill River At Enterprise	Aquatic Life	Total Suspended Solids	SC265	DK, SA	Watershed	Low
4a	Smoky Hill River At Junction City	Aquatic Life	Total Suspended Solids	SC264	GE, DK	Watershed	Low
4a	Smoky Hill River Near Mentor	Aquatic Life	Total Suspended Solids	SC514	SA, EW, MP	Watershed	Low
4a	Smoky Hill River Near Salina	Aquatic Life	Total Suspended Solids	SC268	SA, MP	Watershed	Low
3	Herington City Lake	Water Supply	Arsenic	LM069701	DK	Lake	
3	Herington Reservoir	Water Supply	Arsenic	LM047201	DK	Lake	
3	Smoky Hill River At Junction City	Recreation	E. coli	SC264	GE, DK	Watershed	
3	Lakewood Park Lake	Aquatic Life	Lead	LM069801	SA	Lake	
3	Lakewood Park Lake	Water Supply	Siltation	LM069801	SA	Lake	

10260009
Upper Saline

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Paradise Creek Near Waldo	Water Supply	Arsenic	SC538	OB, RO, RS	Watershed	2023
5	Saline River Near Hays	Water Supply	Arsenic	SC548	TH, RO, SD, GH, EL, TR	Watershed	2023
5	Paradise Creek Near Waldo	Aquatic Life	Dissolved Oxygen	SC538	OB, RO, RS	Watershed	2023
5	Saline River Near Hays	Aquatic Life	Dissolved Oxygen	SC548	TH, RO, SD, GH, EL, TR	Watershed	2023
5	Paradise Creek Near Waldo	Aquatic Life	Total Suspended Solids	SC538	OB, RO, RS	Watershed	2023
4a	Paradise Creek Near Waldo	Water Supply	Chloride	SC538	OB, RO, RS	Watershed	Low
4a	Saline River Near Russell	Water Supply	Chloride	SC011	RO, RS, EL	Watershed	Low
4a	Wilson Lake	Water Supply	Chloride	LM014001	RS	Lake	Low

10260009

Upper Saline

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Plainville Township Lake	Aquatic Life	Eutrophication	LM070001	RO	Lake	Low
4a	Sheridan W.A.	Recreation	Fecal Coli	LM014501	SD	Lake	Low
4a	Sheridan W.A.	Aquatic Life	pH	LM014501	SD	Lake	Low
4a	Paradise Creek Near Waldo	Aquatic Life	Selenium	SC538	OB, RO, RS	Watershed	Low
4a	Saline River Near Hays	Aquatic Life	Selenium	SC548	TH, RO, SD, GH, EL, TR	Watershed	Low
4a	Saline River Near Russell	Aquatic Life	Selenium	SC011	RO, RS, EL	Watershed	Low
4a	Paradise Creek Near Waldo	Water Supply	Sulfate	SC538	OB, RO, RS	Watershed	Low
4a	Saline River Near Hays	Water Supply	Sulfate	SC548	TH, RO, SD, GH, EL, TR	Watershed	Low
4a	Saline River Near Russell	Water Supply	Sulfate	SC011	RO, RS, EL	Watershed	Low
4a	Wilson Lake	Water Supply	Sulfate	LM014001	RS	Lake	Low
3	Saline River Near Hays	Recreation	E. coli	SC548	TH, RO, SD, GH, EL, TR	Watershed	

10260010

Lower Saline

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Spillman Creek Near Lincoln	Water Supply	Arsenic	SC673	MC, LC	Watershed	2023
5	Spillman Creek Near Lincoln	Aquatic Life	Atrazine	SC673	MC, LC	Watershed	2023
5	Saline River Near New Cambria	Aquatic Life	Biology	SC267	OT, LC,SA	Watershed	2023
5	Mulberry Creek Near Salina	Aquatic Life	Copper	SC640	SA, EW, MP	Watershed	2023
5	Wolf Creek Near Sylvan Grove	Aquatic Life	Dissolved Oxygen	SC537	OB, RS	Watershed	2023
5	Saline River Near Beverly	Aquatic Life	Selenium	SC513	LC	Watershed	2023
5	Mulberry Creek Near Salina	Aquatic Life	Total Phosphorus	SC640	SA, EW, MP	Watershed	2018
5	Saline River Near New Cambria	Aquatic Life	Total Phosphorus	SC267	OT, LC,SA	Watershed	2018
5	Spillman Creek Near Lincoln	Aquatic Life	Total Phosphorus	SC673	MC, LC	Watershed	2023
5	Saline River Near Beverly	Aquatic Life	Total Suspended Solids	SC513	LC	Watershed	2023
5	Saline River Near New Cambria	Aquatic Life	Total Suspended Solids	SC267	OT, LC,SA	Watershed	2023
5	Spillman Creek Near Lincoln	Aquatic Life	Total Suspended Solids	SC673	MC, LC	Watershed	2023
5	Wolf Creek Near Sylvan Grove	Aquatic Life	Total Suspended Solids	SC537	OB, RS	Watershed	2023
4a	Saline River Near Beverly	Water Supply	Chloride	SC513	LC	Watershed	Low
4a	Saline River Near New Cambria	Water Supply	Chloride	SC267	OT, LC,SA	Watershed	Low
4a	Wolf Creek Near Sylvan Grove	Water Supply	Chloride	SC537	OB, RS	Watershed	Low

10260010
Lower Saline

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Spillman Creek Near Lincoln	Aquatic Life	Dissolved Oxygen	SC673	MC, LC	Watershed	High
4a	Wolf Creek Near Sylvan Grove	Aquatic Life	Selenium	SC537	OB, RS	Watershed	Low
4a	Bullfoot Creek Near Lincoln	Water Supply	Sulfate	SC672	LC, EW	Watershed	Low
4a	Elkhorn Creek Near Lincoln	Water Supply	Sulfate	SC671	LC, EW	Watershed	Low
4a	Saline River Near Beverly	Water Supply	Sulfate	SC513	LC	Watershed	Low
4a	Saline River Near New Cambria	Water Supply	Sulfate	SC267	OT, LC,SA	Watershed	Low
4a	Wolf Creek Near Sylvan Grove	Water Supply	Sulfate	SC537	OB, RS	Watershed	Low
3	Bullfoot Creek Near Lincoln	Recreation	E. coli	SC672	LC, EW	Watershed	
3	Saline River Near New Cambria	Recreation	E. coli	SC267	OT, LC,SA	Watershed	
3	Saline Co. SFL	Water Supply	Siltation	LM013701	SA	Lake	

Solomon River Basin

10250016
Middle Republican

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Lake Jewell	Aquatic Life	Eutrophication	LM062901	JW	Lake	2023

10260011
Upper North Fork Solomon

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Bow Creek Near Stockton	Water Supply	Arsenic	SC545	PL, RO, SD, GH	Watershed	2023
5	North Fork Solomon River Near Glade	Water Supply	Arsenic	SC546	PL, NT, TH, SD	Watershed	2023
5	Bow Creek Near Stockton	Water Supply	Sulfate	SC545	PL, RO, SD, GH	Watershed	2023
5	Bow Creek Near Stockton	Aquatic Life	Total Phosphorus	SC545	PL, RO, SD, GH	Watershed	2023
5	North Fork Solomon River Near Glade	Aquatic Life	Total Phosphorus	SC546	PL, NT, TH, SD	Watershed	2023
4a	Kirwin Lake	Aquatic Life	Dissolved Oxygen	LM011001	PL, RO	Lake	Medium
4a	Kirwin Lake	Aquatic Life	Eutrophication	LM011001	PL, RO	Lake	Medium
4a	Logan City Lake	Aquatic Life	Eutrophication	LM069301	PL	Lake	Low
4a	Bow Creek Near Stockton	Aquatic Life	Selenium	SC545	PL, RO, SD, GH	Watershed	Low
4a	North Fork Solomon River Near Glade	Aquatic Life	Selenium	SC546	PL, NT, TH, SD	Watershed	Low
4a	North Fork Solomon River Near Glade	Water Supply	Sulfate	SC546	PL, NT, TH, SD	Watershed	Low

10260011

Upper North Fork Solomon

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Kirwin Lake	Water Supply	Arsenic	LM011001	PL, RO	Lake	

10260012

Lower North Fork Solomon

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Beaver Creek Near Gaylord	Water Supply	Arsenic	SC670	SM	Watershed	2023
5	Cedar Creek near Cedar	Water Supply	Arsenic	SC753	SM	Watershed	2023
5	Deer Creek Near Kirwin	Water Supply	Arsenic	SC721	PL	Watershed	2023
5	North Fork Solomon River At Portis	Water Supply	Arsenic	SC014	SM, PL	Watershed	2023
5	Oak Creek Near Cawker City	Water Supply	Arsenic	SC544	JW, SM	Watershed	2023
5	North Fork Solomon River At Portis	Aquatic Life	Biology	SC014	SM, PL	Watershed	2023
5	Beaver Creek Near Gaylord	Aquatic Life	Dissolved Oxygen	SC670	SM	Watershed	2023
5	Deer Creek Near Kirwin	Aquatic Life	Dissolved Oxygen	SC721	PL	Watershed	2023
5	Oak Creek Near Cawker City	Aquatic Life	Dissolved Oxygen	SC544	JW, SM	Watershed	2023
5	Cedar Creek near Cedar	Aquatic Life	Selenium	SC753	SM	Watershed	2023
5	Beaver Creek Near Gaylord	Aquatic Life	Total Phosphorus	SC670	SM	Watershed	2023
5	Cedar Creek near Cedar	Aquatic Life	Total Phosphorus	SC753	SM	Watershed	2023
5	Deer Creek Near Kirwin	Aquatic Life	Total Phosphorus	SC721	PL	Watershed	2023
5	North Fork Solomon River At Portis	Aquatic Life	Total Phosphorus	SC014	SM, PL	Watershed	2023
5	Oak Creek Near Cawker City	Aquatic Life	Total Phosphorus	SC544	JW, SM	Watershed	2023
5	Twelve Mile Creek Near Downs	Aquatic Life	Total Phosphorus	SC674	SM, OB	Watershed	2023
5	North Fork Solomon River At Portis	Aquatic Life	Total Suspended Solids	SC014	SM, PL	Watershed	2023
4a	North Fork Solomon River At Portis	Recreation	E. coli	SC014	SM, PL	Watershed	Low
4a	Beaver Creek Near Gaylord	Aquatic Life	Selenium	SC670	SM	Watershed	Low
4a	Deer Creek Near Kirwin	Aquatic Life	Selenium	SC721	PL	Watershed	Low
4a	North Fork Solomon River At Portis	Aquatic Life	Selenium	SC014	SM, PL	Watershed	Low
4a	Oak Creek Near Cawker City	Aquatic Life	Selenium	SC544	JW, SM	Watershed	Low
4a	Beaver Creek Near Gaylord	Water Supply	Sulfate	SC670	SM	Watershed	Low
4a	Deer Creek Near Kirwin	Water Supply	Sulfate	SC721	PL	Watershed	Low
4a	North Fork Solomon River At Portis	Water Supply	Sulfate	SC014	SM, PL	Watershed	Low
4a	Oak Creek Near Cawker City	Water Supply	Sulfate	SC544	JW, SM	Watershed	Low
4a	Twelve Mile Creek Near Downs	Water Supply	Sulfate	SC674	SM, OB	Watershed	Low

10260013
Upper South Fork Solomon

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Sheridan Co. SFL	Water Supply	Arsenic	LM069401	SD	Lake	2023
5	Antelope Lake	Aquatic Life	Eutrophication	LM069501	GH	Lake	2023
5	Webster Lake	Water Supply	Siltation	LM012001	RO	Lake	2023
4a	Sheridan Co. SFL	Aquatic Life	Dissolved Oxygen	LM069401	SD	Lake	Medium
4a	Sheridan Co. SFL	Aquatic Life	Eutrophication	LM069401	SD	Lake	Medium
4a	Webster Lake	Aquatic Life	Eutrophication	LM012001	RO	Lake	Medium
4a	South Fork Solomon River Near Damar	Aquatic Life	Selenium	SC547	TH, SD, GH	Watershed	Low
4a	South Fork Solomon River Near Damar	Water Supply	Sulfate	SC547	TH, SD, GH	Watershed	Low
4a	Webster Lake	Water Supply	Sulfate	LM012001	RO	Lake	Low
3	Webster Lake	Water Supply	Arsenic	LM012001	RO	Lake	
3	Webster Lake	Aquatic Life	Selenium	LM012001	RO	Lake	

10260014
Lower South Fork Solomon

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	South Fork Solomon River Near Woodston	Water Supply	Arsenic	SC737	RO	Watershed	2023
5	South Fork Solomon River Near Woodston	Aquatic Life	Dissolved Oxygen	SC737	RO	Watershed	2023
5	Carr Creek Near Cawker City	Aquatic Life	Total Phosphorus	SC669	OB, MC	Watershed	2023
5	South Fork Solomon River Near Osborne	Aquatic Life	Total Phosphorus	SC543	OB	Watershed	2023
5	Twin Creek Near Corinth	Aquatic Life	Total Phosphorus	SC668	OB	Watershed	2023
5	Carr Creek Near Cawker City	Aquatic Life	Total Suspended Solids	SC669	OB, MC	Watershed	2023
5	South Fork Solomon River Near Osborne	Aquatic Life	Total Suspended Solids	SC543	OB	Watershed	2023
4a	South Fork Solomon River Near Osborne	Aquatic Life	Biology	SC543	OB	Watershed	Medium
4a	South Fork Solomon River Near Osborne	Aquatic Life	Biology	SC542	OB, RO, RS	Watershed	Medium
4a	Rooks Co. SFL	Aquatic Life	Dissolved Oxygen	LM011901	RO	Lake	Medium
4a	Twin Creek Near Corinth	Aquatic Life	Dissolved Oxygen	SC668	OB	Watershed	Medium
4a	South Fork Solomon River Near Osborne	Recreation	E. coli	SC542	OB, RO, RS	Watershed	Low
4a	South Fork Solomon River Near Osborne	Recreation	E. coli	SC543	OB	Watershed	Low
4a	Rooks Co. SFL	Aquatic Life	Eutrophication	LM011901	RO	Lake	Medium
4a	Carr Creek Near Cawker City	Aquatic Life	Selenium	SC669	OB, MC	Watershed	Low

10260014
Lower South Fork Solomon

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Covert Creek Near Osborne	Aquatic Life	Selenium	SC666	OB	Watershed	Low
4a	Kill Creek Near Bloomington	Aquatic Life	Selenium	SC665	OB	Watershed	Low
4a	South Fork Solomon River Near Osborne	Aquatic Life	Selenium	SC542	OB, RO, RS	Watershed	Low
4a	South Fork Solomon River Near Osborne	Aquatic Life	Selenium	SC543	OB	Watershed	Low
4a	South Fork Solomon River Near Woodston	Aquatic Life	Selenium	SC737	RO	Watershed	Low
4a	Twin Creek Near Corinth	Aquatic Life	Selenium	SC668	OB	Watershed	Low
4a	Carr Creek Near Cawker City	Water Supply	Sulfate	SC669	OB, MC	Watershed	Low
4a	Covert Creek Near Osborne	Water Supply	Sulfate	SC666	OB	Watershed	Low
4a	Kill Creek Near Bloomington	Water Supply	Sulfate	SC665	OB	Watershed	Low
4a	South Fork Solomon River Near Osborne	Water Supply	Sulfate	SC543	OB	Watershed	Low
4a	South Fork Solomon River Near Osborne	Water Supply	Sulfate	SC542	OB, RO, RS	Watershed	Low
4a	South Fork Solomon River Near Woodston	Water Supply	Sulfate	SC737	RO	Watershed	Low
4a	Twin Creek Near Corinth	Water Supply	Sulfate	SC668	OB	Watershed	Low

10260015
Solomon River

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Salt Creek Near Minneapolis	Water Supply	Arsenic	SC512	MC, OT, LC	Watershed	2023
5	Solomon River At Niles	Water Supply	Arsenic	SC266	CD, OT, SA	Watershed	2023
5	Limestone Creek Near Glen Elder	Aquatic Life	Atrazine	SC667	JW	Watershed	2023
5	Solomon River At Niles	Aquatic Life	Atrazine	SC266	CD, OT, SA	Watershed	2023
5	Solomon River At Niles	Aquatic Life	Biology	SC266	CD, OT, SA	Watershed	2023
5	Pipe Creek Near Minneapolis	Aquatic Life	Dissolved Oxygen	SC651	CD, OT, SA	Watershed	2023
5	Salt Creek Near Minneapolis	Aquatic Life	Dissolved Oxygen	SC512	MC, OT, LC	Watershed	2023
5	Jewell Co. SFL	Aquatic Life	Eutrophication	LM012801	JW	Lake	2023
5	Solomon River Near Glasco	Water Supply	Gross Alpha	SC511	JW, CD, MC	Watershed	2023
5	Solomon River Near Glasco	Aquatic Life	Selenium	SC511	JW, CD, MC	Watershed	2023
5	Jewell Co. SFL	Water Supply	Siltation	LM012801	JW	Lake	2023
5	Limestone Creek Near Glen Elder	Aquatic Life	Total Phosphorus	SC667	JW	Watershed	2023
5	Salt Creek Near Minneapolis	Aquatic Life	Total Phosphorus	SC512	MC, OT, LC	Watershed	2023

10260015

Solomon River

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Solomon River At Niles	Aquatic Life	Total Phosphorus	SC266	CD, OT, SA	Watershed	2023
5	Solomon River Near Glasco	Aquatic Life	Total Phosphorus	SC511	JW, CD, MC	Watershed	2023
5	Salt Creek Near Minneapolis	Aquatic Life	Total Suspended Solids	SC512	MC, OT, LC	Watershed	2023
5	Solomon River Near Glasco	Aquatic Life	Total Suspended Solids	SC511	JW, CD, MC	Watershed	2023
4a	Ottawa Co. SFL	Recreation	Aquatic Plants	LM014101	OT	Lake	Medium
4a	Salt Creek Near Minneapolis	Water Supply	Chloride	SC512	MC, OT, LC	Watershed	Low
4a	Solomon River At Niles	Water Supply	Chloride	SC266	CD, OT, SA	Watershed	Low
4a	Solomon River Near Glasco	Water Supply	Chloride	SC511	JW, CD, MC	Watershed	Low
4a	Limestone Creek Near Glen Elder	Aquatic Life	Dissolved Oxygen	SC667	JW	Watershed	High
4a	Ottawa Co. SFL	Aquatic Life	Dissolved Oxygen	LM014101	OT	Lake	Medium
4a	Ottawa Co. SFL	Aquatic Life	Eutrophication	LM014101	OT	Lake	Medium
4a	Waconda Lake	Aquatic Life	Eutrophication	LM018001	OB, MC	Lake	Medium
4a	Limestone Creek Near Glen Elder	Aquatic Life	Selenium	SC667	JW	Watershed	Low
4a	Limestone Creek Near Glen Elder	Water Supply	Sulfate	SC667	JW	Watershed	Low
4a	Salt Creek Near Minneapolis	Water Supply	Sulfate	SC512	MC, OT, LC	Watershed	Low
4a	Solomon River At Niles	Water Supply	Sulfate	SC266	CD, OT, SA	Watershed	Low
4a	Solomon River Near Glasco	Water Supply	Sulfate	SC511	JW, CD, MC	Watershed	Low
4a	Waconda Lake	Water Supply	Sulfate	LM018001	OB, MC	Lake	Low
4a	Solomon River At Niles	Aquatic Life	Total Suspended Solids	SC266	CD, OT, SA	Watershed	Low
3	Solomon River at Beloit	Aquatic Life	Atrazine	PWS2012301	MC	Watershed	

Upper Arkansas River Basin

10260014

Lower South Fork Solomon

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Carr Creek Near Cawker City	Aquatic Life	Atrazine	SC669	OB, MC	Watershed	

11030001

Middle Arkansas-Lake McKinney

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Hamilton Co. SFL	Aquatic Life	Dissolved Oxygen	LM016101	HM	Lake	2023
5	Arkansas River At Coolidge	Water Supply	Fluoride	SC223	HM	Watershed	2023

11030001

Middle Arkansas-Lake McKinney

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Arkansas River Near Deerfield	Water Supply	Fluoride	SC598	KE, HM	Watershed	2023
5	Arkansas River At Coolidge	Water Supply	Gross Alpha	SC223	HM	Watershed	2023
5	Arkansas River Near Deerfield	Water Supply	Gross Alpha	SC598	KE, HM	Watershed	2023
5	Arkansas River Near Deerfield	Aquatic Life	Total Suspended Solids	SC598	KE, HM	Watershed	2023
4a	Hamilton Co. SFL	Recreation	Aquatic Plants	LM016101	HM	Lake	Low
4a	Arkansas River At Coolidge	Water Supply	Boron	SC223	HM	Watershed	Medium
4a	Arkansas River Near Deerfield	Water Supply	Boron	SC598	KE, HM	Watershed	Medium
4a	Hamilton Co. SFL	Water Supply	Chloride	LM016101	HM	Lake	Low
4a	Hamilton W.A.	Water Supply	Chloride	LM016141	HM	Lake	Low
4a	Hamilton W.A.	Aquatic Life	Dissolved Oxygen	LM016141	HM	Lake	Low
4a	Hamilton Co. SFL	Aquatic Life	Eutrophication	LM016101	HM	Lake	Low
4a	Hamilton W.A.	Aquatic Life	Eutrophication	LM016141	HM	Lake	Low
4a	Arkansas River At Coolidge	Aquatic Life	Selenium	SC223	HM	Watershed	High
4a	Arkansas River Near Deerfield	Aquatic Life	Selenium	SC598	KE, HM	Watershed	High
4a	Hamilton Co. SFL	Water Supply	Siltation	LM016101	HM	Lake	Low
4a	Hamilton W.A.	Water Supply	Siltation	LM016141	HM	Lake	Low
4a	Arkansas River At Coolidge	Water Supply	Sulfate	SC223	HM	Watershed	Medium
4a	Arkansas River Near Deerfield	Water Supply	Sulfate	SC598	KE, HM	Watershed	Medium
4a	Hamilton Co. SFL	Water Supply	Sulfate	LM016101	HM	Lake	Low
4a	Hamilton W.A.	Water Supply	Sulfate	LM016141	HM	Lake	Low
3	Beymer Lake	Water Supply	Fluoride	LM071001	JO	Lake	
3	Beymer Lake	Aquatic Life	Selenium	LM071001	JO	Lake	

11030003

Arkansas-Dodge City

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4c	Arkansas River At	Aquatic Life	Total Phosphorus	SC286	FI, KE	Watershed	Low
4c	Arkansas River At	Aquatic Life	Total Suspended Solids	SC286	FI, KE	Watershed	Low
4a	Arkansas River At	Water Supply	Boron	SC286	FI, KE	Watershed	Medium
4a	Lake Charles	Aquatic Life	Eutrophication	LM071101	FO	Lake	Low
4a	Arkansas River At	Recreation	Fecal Coli	SC286	FI, KE	Watershed	High
4a	Arkansas River At	Aquatic Life	pH	SC286	FI, KE	Watershed	Medium
4a	Arkansas River At	Aquatic Life	Selenium	SC286	FI, KE	Watershed	High

11030003
Arkansas-Dodge City

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Arkansas River At	Water Supply	Sulfate	SC286	FI, KE	Watershed	Medium

11030004
Arkansas-Pickerel

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Arkansas River Near Dundee	Aquatic Life	Atrazine	SC584	PN, ED, FO	Watershed	2023
5	Arkansas River Near Great Bend	Aquatic Life	Atrazine	SC284	BT, SF	Watershed	2023
5	Arkansas River Near Ford	Water Supply	Fluoride	SC594	GY, FO, HS	Watershed	2023
5	Arkansas River Near Great Bend	Water Supply	Gross Alpha	SC284	BT, SF	Watershed	2023
5	Arkansas River Near Dundee	Aquatic Life	Selenium	SC584	PN, ED, FO	Watershed	2023
5	Arkansas River Near Ford	Aquatic Life	Selenium	SC594	GY, FO, HS	Watershed	2023
5	Arkansas River Near Great Bend	Aquatic Life	Selenium	SC284	BT, SF	Watershed	2023
5	Arkansas River Near Kinsley	Aquatic Life	Selenium	SC587	ED, FO	Watershed	2023
5	Arkansas River Near Ford	Aquatic Life	Total Phosphorus	SC594	GY, FO, HS	Watershed	2023
5	Arkansas River Near Great Bend	Aquatic Life	Total Phosphorus	SC284	BT, SF	Watershed	2023
5	Mulberry Creek Near Ford	Aquatic Life	Total Suspended Solids	SC700	FO	Watershed	2023
4a	Arkansas River Near Great Bend	Aquatic Life	Biology	SC284	BT, SF	Watershed	Medium
4a	Mulberry Creek Near Ford	Aquatic Life	Dissolved Oxygen	SC700	FO	Watershed	Low
4a	Arkansas River Near Dundee	Recreation	E. coli	SC584	PN, ED, FO	Watershed	High
4a	Arkansas River Near Ford	Recreation	E. coli	SC594	GY, FO, HS	Watershed	High
4a	Arkansas River Near Kinsley	Recreation	E. coli	SC587	ED, FO	Watershed	High
4a	Arkansas River Near Great Bend	Recreation	Fecal Coli	SC284	BT, SF	Watershed	High
4a	Arkansas River Near Kinsley	Water Supply	Fluoride	SC587	ED, FO	Watershed	Medium
4a	Arkansas River Near Dundee	Water Supply	Sulfate	SC584	PN, ED, FO	Watershed	Medium
4a	Arkansas River Near Ford	Water Supply	Sulfate	SC594	GY, FO, HS	Watershed	Medium
4a	Arkansas River Near Great Bend	Water Supply	Sulfate	SC284	BT, SF	Watershed	Medium

11030005
Pawnee

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Concannon SFL	Water Supply	Boron	LM053601	FI	Lake	2023
5	Concannon SFL	Water Supply	Fluoride	LM053601	FI	Lake	2023

11030005**Pawnee**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Concannon SFL	Water Supply	Sulfate	LM053601	FI	Lake	2023
5	Pawnee River Near Burdett	Aquatic Life	Total Phosphorus	SC586	NX, FI, HG	Watershed	2023
5	Pawnee River Near Larned	Aquatic Life	Total Phosphorus	SC585	PN	Watershed	2023
5	Pawnee River Near Burdett	Aquatic Life	Total Suspended Solids	SC586	NX, FI, HG	Watershed	2023
4a	Pawnee River Near Burdett	Aquatic Life	Atrazine	SC586	NX, FI, HG	Watershed	Medium
4a	Pawnee River Near Larned	Aquatic Life	Atrazine	SC585	PN	Watershed	Medium
4a	Pawnee River Near Burdett	Aquatic Life	Copper	SC586	NX, FI, HG	Watershed	Low
4a	Pawnee River Near Larned	Aquatic Life	Copper	SC585	PN	Watershed	Low
4a	Pawnee River Near Burdett	Aquatic Life	Dissolved Oxygen	SC586	NX, FI, HG	Watershed	Low
4a	Pawnee River Near Larned	Aquatic Life	Dissolved Oxygen	SC585	PN	Watershed	Low
4a	Pawnee River Near Burdett	Recreation	E. coli	SC586	NX, FI, HG	Watershed	High
4a	Concannon SFL	Aquatic Life	Eutrophication	LM053601	FI	Lake	Low
4a	Pawnee River Near Larned	Recreation	Fecal Coli	SC585	PN	Watershed	High
4a	Pawnee River Near Burdett	Aquatic Life	Lead	SC586	NX, FI, HG	Watershed	Low
4a	Pawnee River Near Larned	Aquatic Life	Lead	SC585	PN	Watershed	Low
3	Concannon SFL	Water Supply	Arsenic	LM053601	FI	Lake	

11030006**Buckner**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Hain SFL	Aquatic Life	Eutrophication	LM070901	FO	Lake	2023
5	Hodgeman Co. SFL/W.A.	Aquatic Life	Eutrophication	LM074201	HG	Lake	2023
5	Horsethief Canyon Lake	Aquatic Life	Eutrophication	LM055001	HG	Lake	2023
4a	Jetmore Lake	Recreation	Aquatic Plants	LM073901	HG	Lake	Low
4a	Ford Co. Lake	Aquatic Life	Dissolved Oxygen	LM070801	FO	Lake	High
4a	Ford Co. Lake	Aquatic Life	Eutrophication	LM070801	FO	Lake	High
4a	Jetmore Lake	Aquatic Life	Eutrophication	LM073901	HG	Lake	Low
4a	Ford Co. Lake	Aquatic Life	pH	LM070801	FO	Lake	High
3	Boy Scout Lake	Aquatic Life	Eutrophication	LM070601	HG	Lake	

11030007**Upper Walnut Creek**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Walnut Creek At Ness City	Water Supply	Arsenic	SC595	SC, LE, NS	Watershed	2023
4a	Walnut Creek At Ness City	Aquatic Life	Selenium	SC595	SC, LE, NS	Watershed	Low
4a	Walnut Creek At Ness City	Water Supply	Sulfate	SC595	SC, LE, NS	Watershed	Low

11030008
Lower Walnut Creek

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Walnut Creek Near Alexander	Water Supply	Arsenic	SC596	LE, NS	Watershed	2023
5	Walnut Creek Near Heizer	Water Supply	Arsenic	SC597	RH, BT	Watershed	2023
5	Goodman SFL	Aquatic Life	Eutrophication	LM052401	NS	Lake	2023
5	Goodman SFL	Water Supply	Sulfate	LM052401	NS	Lake	2023
5	Walnut Creek Near Heizer	Aquatic Life	Total Phosphorus	SC597	RH, BT	Watershed	2023
5	Walnut Creek Near Heizer	Aquatic Life	Total Suspended Solids	SC597	RH, BT	Watershed	2023
4a	Walnut Creek Near Alexander	Aquatic Life	Dissolved Oxygen	SC596	LE, NS	Watershed	Low
4a	Walnut Creek Near Heizer	Aquatic Life	Dissolved Oxygen	SC597	RH, BT	Watershed	Low
4a	Memorial Park Lake	Aquatic Life	Eutrophication	LM071501	BT	Lake	Low
4a	Stone Lake	Aquatic Life	Eutrophication	LM074001	BT	Lake	Low
4a	Walnut Creek Near Alexander	Aquatic Life	Selenium	SC596	LE, NS	Watershed	Low
4a	Walnut Creek Near Heizer	Aquatic Life	Selenium	SC597	RH, BT	Watershed	Low
4a	Walnut Creek Near Alexander	Water Supply	Sulfate	SC596	LE, NS	Watershed	Low
4a	Walnut Creek Near Heizer	Water Supply	Sulfate	SC597	RH, BT	Watershed	Low
3	Walnut Creek Near Heizer	Aquatic Life	Atrazine	SC597	RH, BT	Watershed	
3	Walnut Creek Near Heizer	Recreation	E. coli	SC597	RH, BT	Watershed	
3	Goodman SFL	Aquatic Life	Selenium	LM052401	NS	Lake	

Upper Republican River Basin

10250001
Arikaree

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Arikaree River Near Haigler, Nebraska	Aquatic Life	Dissolved Oxygen	SC226	CN	Watershed	2023
4a	Arikaree River Near Haigler, Nebraska	Water Supply	Fluoride	SC226	CN	Watershed	Low
4a	Arikaree River Near Haigler, Nebraska	Aquatic Life	Selenium	SC226	CN	Watershed	Low
3	Arikaree River Near Haigler, Nebraska	Recreation	E. coli	SC226	CN	Watershed	

10250003
South Fork Republican

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	South Fork Republican River Near St. Francis	Water Supply	Gross Alpha	SC225	CN	Watershed	2023

10250003**South Fork Republican**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	South Fork Republican River Near Benkelman, Nebraska	Water Supply	Fluoride	SC227	CN	Watershed	Low
4a	South Fork Republican River Near St. Francis	Water Supply	Fluoride	SC225	CN	Watershed	Low
3	South Fork Republican River Near St. Francis	Aquatic Life	Biology	SC225	CN	Watershed	
3	Saint Francis W.A.	Aquatic Life	Copper	LM071401	CN	Lake	
3	Saint Francis W.A.	Aquatic Life	Eutrophication	LM071401	CN	Lake	

10250011**Lower Sappa**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Sappa Creek Near Beaver City, Nebraska	Water Supply	Arsenic	SC229	RA, DC, NT, SH, TH	Watershed	2023
5	Sappa Creek Near Beaver City, Nebraska	Aquatic Life	Dissolved Oxygen	SC229	RA, DC, NT, SH, TH	Watershed	2023
5	Sappa Creek Near Beaver City, Nebraska	Aquatic Life	Selenium	SC229	RA, DC, NT, SH, TH	Watershed	2023
5	Sappa Creek Near Beaver City, Nebraska	Aquatic Life	Total Phosphorus	SC229	RA, DC, NT, SH, TH	Watershed	2023

10250012**South Fork Beaver**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Atwood Township Lake	Aquatic Life	Eutrophication	LM071201	RA	Lake	
3	Atwood Township Lake	Water Supply	Fluoride	LM071201	RA	Lake	
3	Atwood Township Lake	Water Supply	Sulfate	LM071201	RA	Lake	

10250014**Beaver Creek**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Beaver Creek At Cedar Bluffs	Aquatic Life	Dissolved Oxygen	SC228	CN, RA, DC, SH	Watershed	Low
4a	Beaver Creek At Cedar Bluffs	Water Supply	Fluoride	SC228	CN, RA, DC, SH	Watershed	Low
3	Beaver Creek At Cedar Bluffs	Aquatic Life	Total Phosphorus	SC228	CN, RA, DC, SH	Watershed	

10250015**Prairie Dog Creek**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Prairie Dog Creek Near Dellvale	Water Supply	Arsenic	SC549	DC, TH	Watershed	2023
5	Prairie Dog Creek Near Woodruff	Water Supply	Arsenic	SC230	PL, NT	Watershed	2023

10250015
Prairie Dog Creek

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Prairie Dog Creek Near Dellvale	Aquatic Life	Dissolved Oxygen	SC549	DC, TH	Watershed	2023
5	Prairie Dog Creek Near Woodruff	Aquatic Life	Total Phosphorus	SC230	PL, NT	Watershed	2023
4a	Norton Lake (Sebelius Lake)	Aquatic Life	Dissolved Oxygen	LM010001	NT	Lake	Low
4a	Prairie Dog Creek Near Woodruff	Aquatic Life	Dissolved Oxygen	SC230	PL, NT	Watershed	High
4a	Colby City Lake	Aquatic Life	Eutrophication	LM071301	TH	Lake	Low
4a	Norton Lake (Sebelius Lake)	Aquatic Life	Eutrophication	LM010001	NT	Lake	High
4a	Norton Lake (Sebelius Lake)	Aquatic Life	pH	LM010001	NT	Lake	Low
4a	Prairie Dog Creek Near Dellvale	Aquatic Life	Total Phosphorus	SC549	DC, TH	Watershed	Low
3	Colby City Lake	Aquatic Life	Lead	LM071301	TH	Lake	

Verdigris River Basin

11070101
Upper Verdigris

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Verdigris River Near Virgil	Recreation	E. coli	SC289	LY, CS, GW	Watershed	2023
5	Toronto Lake	Aquatic Life	Lead	LM024001	GW, WO	Lake	2023
5	Woodson W.A.	Water Supply	Siltation	LM011841	WO	Lake	2023
4a	Chetopa Creek Near Neodesha	Aquatic Life	Dissolved Oxygen	SC696	WL, NO	Watershed	Medium
4a	Toronto Lake	Aquatic Life	Dissolved Oxygen	LM024001	GW, WO	Lake	High
4a	Wilson Co. SFL	Aquatic Life	Dissolved Oxygen	LM015101	WL	Lake	Medium
4a	Woodson W.A.	Aquatic Life	Dissolved Oxygen	LM011841	WO	Lake	Medium
4a	Eureka Lake	Aquatic Life	Eutrophication	LM040201	GW	Lake	Medium
4a	Toronto Lake	Aquatic Life	Eutrophication	LM024001	GW, WO	Lake	High
4a	Wilson Co. SFL	Aquatic Life	Eutrophication	LM015101	WL	Lake	Medium
4a	Woodson W.A.	Aquatic Life	Eutrophication	LM011841	WO	Lake	Medium
4a	Chetopa Creek Near Neodesha	Recreation	Fecal Coli	SC696	WL, NO	Watershed	Medium
4a	Woodson W.A.	Recreation	Fecal Coli	LM011841	WO	Lake	Medium
4a	Eureka Lake	Water Supply	Siltation	LM040201	GW	Lake	Medium
4a	Toronto Lake	Water Supply	Siltation	LM024001	GW, WO	Lake	High

11070102
Fall River

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Fall River Lake	Aquatic Life	Dissolved Oxygen	LM023001	GW	Lake	High

11070102**Fall River**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
4a	Fall River Lake	Aquatic Life	Eutrophication	LM023001	GW	Lake	
4a	Fall River Near Climax	Recreation	Fecal Coli	SC575	GW, BU	Watershed	High
4a	Fall River Lake	Water Supply	Siltation	LM023001	GW	Lake	High
3	Otter Creek Near Climax	Aquatic Life	Biology	SC574	GW	Watershed	

11070103**Middle Verdigris**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Verdigris River Near Sycamore	Aquatic Life	Biology	SC105	WL, MG	Watershed	2023
5	Verdigris River Near Coffeyville	Aquatic Life	Selenium	SC215	MG	Watershed	2023
4a	Verdigris River Near Coffeyville	Aquatic Life	Biology	SC215	MG	Watershed	Medium
4a	Verdigris River Near Independence	Aquatic Life	Biology	SC563	MG	Watershed	Medium
4a	Big Hill Creek Near Avian	Aquatic Life	Dissolved Oxygen	SC607	MG, LB	Watershed	Medium
4a	Montgomery Co. SFL	Aquatic Life	Dissolved Oxygen	LM010701	MG	Lake	Medium
4a	Onion Creek Near Coffeyville	Aquatic Life	Dissolved Oxygen	SC608	MG	Watershed	Medium
4a	Pumpkin Creek Near Coffeyville	Aquatic Life	Dissolved Oxygen	SC606	LB	Watershed	Medium
4a	Big Hill Creek Near Avian	Recreation	E. coli	SC607	MG, LB	Watershed	Medium
4a	Big Hill Lake	Aquatic Life	Eutrophication	LM031001	NO, LB	Lake	High
4a	La Claire Lake	Aquatic Life	Eutrophication	LM072901	MG	Lake	Low
4a	Lake Tanko (Cherryvale City Lake)	Aquatic Life	Eutrophication	LM071601	MG	Lake	Low
4a	Montgomery Co. SFL	Aquatic Life	Eutrophication	LM010701	MG	Lake	Medium
4a	Verdigris River Near Coffeyville	Recreation	Fecal Coli	SC215	MG	Watershed	Medium
4a	Verdigris River Near Independence	Recreation	Fecal Coli	SC563	MG	Watershed	Medium
4a	Montgomery Co. SFL	Aquatic Life	pH	LM010701	MG	Lake	Medium
3	Drum Creek Near Independence	Recreation	E. coli	SC699	NO, MG	Watershed	
3	Pumpkin Creek Near Coffeyville	Recreation	E. coli	SC606	LB	Watershed	
3	Verdigris River Near Sycamore	Recreation	E. coli	SC105	WL, MG	Watershed	

11070104**Elk River**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Moline Reservoir	Aquatic Life	Eutrophication	LM071901	EK	Lake	2023

11070104

Elk River

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Polk Daniels Lake (Elk Co. SFL)	Aquatic Life	Eutrophication	LM012701	EK	Lake	2023
4a	Elk City Lake	Aquatic Life	Eutrophication	LM025001	EK, MG, CQ	Lake	Medium
4a	Elk River Near Howard	Recreation	Fecal Coli	SC693	EK, MG	Watershed	Medium
4a	Elk City Lake	Water Supply	Siltation	LM025001	EK, MG, CQ	Lake	Medium

11070106

Caney River

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Middle Caney Creek Near Sedan	Aquatic Life	Dissolved Oxygen	SC694	CQ	Watershed	2023
5	Sedan City North Lake	Aquatic Life	Eutrophication	LM048601	CQ	Lake	2023
5	Little Caney River Near Caney	Water Supply	Nitrate	SC572	MG, CQ	Watershed	2023

Walnut River Basin

11030017

Upper Walnut River

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Whitewater River At Towanda	Water Supply	Arsenic	SC038	HV, BU, SG	Watershed	2023
5	Whitewater River At Towanda	Aquatic Life	Biology	SC038	HV, BU, SG	Watershed	2023
5	Walnut River Near El Dorado	Aquatic Life	Selenium	SC279	BU	Watershed	2023
4a	Augusta Santa Fe Lake	Aquatic Life	Dissolved Oxygen	LM041601	BU	Lake	Medium
4a	Walnut River Near El Dorado	Aquatic Life	Dissolved Oxygen	SC279	BU	Watershed	High
4a	Walnut River Near El Dorado	Recreation	E. coli	SC279	BU	Watershed	High
4a	Whitewater River At Towanda	Recreation	E. coli	SC038	HV, BU, SG	Watershed	High
4a	Augusta City Lake	Aquatic Life	Eutrophication	LM040001	BU	Lake	High
4a	Augusta Santa Fe Lake	Aquatic Life	Eutrophication	LM041601	BU	Lake	Medium
4a	El Dorado Lake	Aquatic Life	Eutrophication	LM033001	BU	Lake	High
4a	Harvey Co. East Lake	Aquatic Life	Eutrophication	LM052001	HV	Lake	Medium
4a	Augusta Santa Fe Lake	Water Supply	Siltation	LM041601	BU	Lake	Medium
4a	El Dorado Lake	Water Supply	Siltation	LM033001	BU	Lake	High
4a	Walnut River Near El Dorado	Aquatic Life	Total Phosphorus	SC279	BU	Watershed	High
4a	Whitewater River At Towanda	Aquatic Life	Total Phosphorus	SC038	HV, BU, SG	Watershed	High
3	Harvey Co. East Lake	Aquatic Life	Atrazine	LM052001	HV	Lake	

11030017**Upper Walnut River**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
3	Walnut River Near El Dorado	Aquatic Life	Biology	SC279	BU	Watershed	

11030018**Lower Walnut River**

Cat.	Stream/Lake	Impaired Use	Impairment	Station	Counties	Body Type	Priority
5	Eight Mile Creek Near Douglas	Aquatic Life	Atrazine	SC704	BU	Watershed	2023
4a	Walnut River At Gordon	Aquatic Life	Biology	SC106	BU	Watershed	Medium
4a	Walnut River Near Hackney	Aquatic Life	Biology	SC532	BU, CL	Watershed	Medium
4a	Eight Mile Creek Near Douglas	Aquatic Life	Dissolved Oxygen	SC704	BU	Watershed	High
4a	Little Walnut River Near Douglas	Recreation	E. coli	SC655	BU	Watershed	High
4a	Rock Creek Near Rock	Recreation	E. coli	SC654	BU, CL	Watershed	High
4a	Butler Co. SFL	Aquatic Life	Eutrophication	LM049401	BU	Lake	Medium
4a	Winfield City Lake	Aquatic Life	Eutrophication	LM050801	CL	Lake	High
4a	Winfield Park Lagoon	Aquatic Life	Eutrophication	LM072301	CL	Lake	Low
4a	Eight Mile Creek Near Douglas	Water Supply	Sulfate	SC704	BU	Watershed	Low
4a	Four Mile Creek Near Gordon	Water Supply	Sulfate	SC744	BU, SG	Watershed	Low
4a	Walnut River At Gordon	Water Supply	Sulfate	SC106	BU	Watershed	Low
4a	Eight Mile Creek Near Douglas	Aquatic Life	Total Phosphorus	SC704	BU	Watershed	High
4a	Four Mile Creek Near Gordon	Aquatic Life	Total Phosphorus	SC744	BU, SG	Watershed	High
4a	Walnut River At Gordon	Aquatic Life	Total Phosphorus	SC106	BU	Watershed	High
3	Eight Mile Creek Near Douglas	Recreation	E. coli	SC704	BU	Watershed	
3	Timber Creek Near Winfield	Recreation	E. coli	SC653	CL	Watershed	
3	Walnut River Near Hackney	Recreation	E. coli	SC532	BU, CL	Watershed	

APPENDIX FOUR

Kansas Nonpoint Source Pollution Management Plan

Kansas Nonpoint Pollutant Source Categories

10	<u>Agriculture</u>	51.1:	Coal Mining
	*10.1: Fertilizer & Nutrient Application	51.2:	Rock Quarry
	10.2: Pesticide Application	52:	Subsurface Mining
	*10.21: Pesticide Application - Field Practices	53:	Placer Mining
	10.22: Pesticide Application - Certified Applicators	54:	Dredge Mining
	*10.23: Pesticide Application - Non-certified	55:	Petroleum Activities
Applicators		55.1:	Petroleum Activities - Drilling Waste Storage and Handling
	10.3: Chemigation		
	10.31: Chemigation - Source Control		
	*10.32: Chemigation - Application Procedures	55.2:	Petroleum Activities - Disposal of Brines and Mineralized Waters
	*11: Non-irrigated Crop Production	55.3:	Petroleum Activities - Abandoned Oil and Gas Wells
	*11.1: Crop Production - Suspended Solids	56:	Mill Tailings
	*11.2: Crop Production - Nutrients	57:	Mine Tailings
	*12: Irrigated Crop Production	58.1:	Water Well Development - Licensed Contractors and Non-domestic, Individual
	*13: Specialty Crop Production (e.g. truck farming and orchards)	*58.2:	Water Well Development - Domestic, Individual
	*14: Pasture Land		
	*15: Range Land	60	<u>Land Disposal (Runoff/Leachate From Permitted Areas)</u>
	16: Confined Livestock Operations	61:	Sludge
	*17: Aquaculture	62:	Wastewater
	*18: Animal Holding/Management Areas	63:	Landfills
	18.1 Livestock manure management	*64:	Industrial Land Treatment
	18.1.1 Composting	65:	On-site Wastewater Systems (septic tanks, etc.)
	18.1.2 Storage		
	18.1.3 Land Application	66:	Hazardous Waste
	*19: Residences	70	<u>Hydrologic/Habitat Modification</u>
	*19.1: Farmstead	71:	Channelization
	*19.2: Rural Non-farm	72:	Dredging
20	<u>Silviculture</u>	73:	Dam Construction
	*21: Harvesting, Reforestation, Residue Management	*74:	Flow Regulation/Modification
	*22: Forest Management	75:	Bridge Construction
	*23: Road Construction/Maintenance	*76:	Removal of Riparian Vegetation
30	<u>Construction</u>	77:	Streambank Modification/De-stabilization
	*31: Highway/Road/Bridge	78:	Land use conversion development
	31.1: Highway/Road/Bridge - Federal Financed	80	<u>Other</u>
	31.2: Highway/Road/Bridge - State Financed	*81:	Atmospheric Deposition
	31.3: Highway/Road/Bridge - Locally Financed	82:	Storage Tanks - Petroleum or Regulated Substances
	*32: Land Development	*82.3:	Non-regulated Storage Tanks
40	<u>Urban, Commercial, Industrial Areas</u>	*82.5:	Abandoned/Buried Storage Tanks
	40.1 Residential runoff	*82.6:	Abandoned Tank Piping
	40.2 Industrial site runoff	*83:	Highway Maintenance and Runoff
	40.3 Commercial area runoff	84:	Spills
	40.4 Open space runoff	*85:	In-place Contaminants
	*41: Storm Sewers (source control)	*86:	Natural
	42: Sanitary Sewer Systems	83	<u>Transportation</u>
	*43: Surface Runoff	*83.1:	Highways
	44: Industrial Fluid Disposal	*83.11:	Runoff
45	<u>Commercial and Institutional Sites</u>	*83.12:	Deicing
	*45.01: Gasoline/Service Station	*83.13:	Maintenance
	*45.02: School	83.14:	Pesticide Use
46	<u>Recreation Sites</u>	*83.2:	Rail Roads
47	<u>Industrial Site</u>	*83.21:	Runoff
	47.011: Ag. Chemical - Fertilizer - Bulk Storage and Handling	*83.22:	Maintenance
	47.012: Ag. Chemical - Pesticide - Bulk Storage and Handling	83.23:	Pesticide Use
	47.01: Ag Chemical	87	<u>Utility Corridor</u>
	*47.02: Rail Yard	*87.1:	Pipeline
	47.03: Tank Farm	*87.11:	Pipeline Leaks
	47.1: Industrial Park	*87.2:	Electrical
50	<u>Resource Extraction/Exploration/Development</u>	*87.21:	Construction
	51: Surface Mining	87.22:	Pesticide Application

- 88 Abandoned Wells
88.1: Water Wells
90 Source unknown

Source: Adapted from - US EPA. Guidelines for the Preparation of the 1988 State Water Quality Assessment (305(b) Report), April 1, 1987, p; Revised December 2000.

Recommended Best Management Practices for NPS Pollution Control

Following is a list of Best Management Practices for NPS pollution control. Other practices may be considered on a case by case basis by the funding agencies. Practices utilized for water quality projects that are specifically required by an NPDES permit are not considered an NPS pollution control practice.

The Kansas WRAPS Work Group has adopted the following criteria for funding BMPs for WRAPS projects:

1. The project will demonstrate a new or innovative water quality protection measure or enhance an established water quality protection measure.
 - a. Measures shall be implemented in a high priority area (identified in a watershed assessment, if available) and will help achieve water quality and pollutant load reduction goals for the watershed.
 - b. Measures shall be implemented in accordance with standards or procedures developed by a recognized authority with expertise in the subject matter (e.g. KSU Research and Extension, conservation district, professional engineer) and reviewed by KDHE.
 - c. An evaluation component shall be included to evaluate the effectiveness of the measure being implemented.
 - d. An information and education component shall be included to inform other stakeholders of the measure and its water quality benefits.
2. The project will demonstrate an established water quality protection practice
 - a. Practice shall be implemented in accordance with accepted standards and specifications of a state or federal agency when applicable. If no state or federal standard is available, other competent sources may be considered (e.g. urban BMP manuals).
 - b. Practice shall be implemented in a high priority area (identified in a watershed assessment, if available) and will help achieve water quality and pollutant load reduction goals for the watershed.
 - c. Other federal, state or local funding sources have been explored and are not available for implementation of the practice or other sources are being leveraged to implement the practice.
 - d. An information and education component will be included to inform other stakeholders of the practice and its water quality benefits. An assessment of the effectiveness of the outreach efforts utilized shall be included.

Best Management Practice	NRCS code or other KDHE accepted standard (*)	Agriculture	Commercial, Institutional	Construction	Hydrologic modification	Land Disposal	Recreation	Resource Extraction /Exploration/ Development	Silviculture	Transportation	Urban/ Industrial areas	Utility Corridors	Rural Homes
Abandoned water well	351	x											x
Access Control	472	x											
Access Road	560	x	x	x	x	x		x					x
Ag Fuel Containment Facility	700	x	x										
Agrochemical Mixing Station, Portable	703	x	x										
Agrochemical Storage Facility	*	x	x										
Alternative Septic System	*												x
Alternative Water Sources	614	x											
Alum Treatment of Poultry Litter	*												
Amendments for the Treatment of Agricultural Waste	591	x											
Animal Mortality Facility	316	x											
Animal Trails and Walkways	575	x											
Anionic Polyacrylamide (PAM) Application	450	x		x									
Arazine Management Practices	*	x	x							x	x	x	
Baffle Boxes	*		x		x		x			x	x	x	
Barnyard Runoff Management	357	x											
Brush Control Management	314	x											
Channel Bank Vegetation	322	x	x		x					x	x	x	
Check Dam	10			x									
Cistern	*	x	x								x		x
Clearing and Snagging	326	x					x			x	x	x	
Closure of Waste Impoundments	360	x											
Composting Facility	317	x	x										
Comprehensive Nutrient Management Plan	*	x											
Concentrated non-confined Livestock	390	x											
Conservation Cover	327	x											
Conservation Crop Rotation	328	x											
Conservation Easements	*	x											
Conservation Tillage	329	x											
Constructed Wetland	658	x	x								x	x	
Contour Buffer Strips	322	x											
Contour Farming	330	x											

Best Management Practice	NRCS code or other KDHE accepted standard (*)	Agriculture	Commercial, Institutional	Construction	Hydrologic modification	Land Disposal	Recreation	Resource Extraction /Exploration/ Development	Silviculture	Transportation	Urban/ Industrial areas	Utility Corridors	Rural Homes
Controlled Drainage	335	x											
Controlled Livestock Lounging Area	*	x											
Controlled Stream Access for Livestock Watering	*	x											
Cover Crop	340	x											
Critical Area Planting	342	x											
Critical Area Planting Reseeding	512r	x											
Cut Bank Stabilization	*	x	x		x					x	x	x	
Dam	356	x			x								
Dam - Diversion	402	x											
Dike	356	x	x		x		x			x	x	x	
Ditch Stabilization	581	x											
Diversion	362	x		x			x	x		x	x	x	
Drainage Water Management	*	x											
Erosion control blanket	*			x									
Erosion Control hay bales	*			x									
Erosion control logs or portable berms.	*			x									
Erosion control pollutant filter logs	*			x									
Erosion control silt fence	*			x									
Feed Management	595	x											
Fence	382	x											
Field Border	386	x											
Field Windbreak	390	x											
Filter Strip	393	x											
Filter Strip Reseeding	393r	x											
Fish Passage	395				x								
Floodwater Diversion	400	x	x		x	x	x	x	x	x	x	x	
Forage and Biomass Planting	512	x											
Forage - Harvest Management	511	x											
Forest - Direct Seeding	652							x					
Forest - Erosion Control	408							x					
Forest - Improved Harvest	654							x					
Forest - Land Management	904							x					
Forest- Purning	660							x					

Best Management Practice	NRCS code or other KDHE accepted standard (*)	Agriculture	Commercial, Institutional	Construction	Hydrologic modification	Land Disposal	Recreation	Resource Extraction /Exploration/ Development	Silviculture	Transportation	Urban/ Industrial areas	Utility Corridors	Rural Homes
Forest Site Preparation	490								x				
Forest Stand Improvement	666								x				
Forest Trails and Landings	655								x				
Furrow Diking	715	x											
Grade Stabilization Structure	410	x			x								
Grassed Waterway or outlet	412	x			x								
Grasses/Legumes Rotation	411	x											
Grazing - Deferred	352	x											
Grazing Planned Systems	556	x											
Green Roof System	*		x								x		
Harvestable Riparian Buffer	*	x											
Heavy Use Area Protection	561	x											
Herbaceous Species/Noxious Weed Control	*	x	x										
High Residues Management	329a	x											
Hillside Ditch	423	x											
Home Sewage Treatment System Repair/Replacement	110		x				x						
Hydro Seeder	*			x									
Improved Water Application	*	x	x								x		
In-Lake Alum Treatment	*						x						
Infiltration Ditches	753	x	x								x		
Integrated Pest Management	595	x	x			x	x		x	x	x	x	x
Irrigation System-Surface & Subsurface	443	x											
Irrigation System-Tailwater Recovery	447	x											
Irrigation System, Trickle	441	x											
Irrigation Water Management	449	x											
Land Clearing	460	x	x	x	x	x	x	x	x	x	x	x	
Land Grading	*	x	x	x	x	x	x	x	x	x	x	x	
Land Reclamation	451							x					
Land Reclamation, Toxic Discharge Control	455	x	x					x					
Land Reconstruction, Abandoned Mined Land	543		x					x					

Best Management Practice	NRCS code or other KDHE accepted standard (*)	Agriculture	Commercial, Institutional	Construction	Hydrologic modification	Land Disposal	Recreation	Resource Extraction /Exploration/ Development	Silviculture	Transportation	Urban/ Industrial areas	Utility Corridors	Rural Homes
Land Reconstruction, Brine Damaged Areas	*	x	x					x					
Land Smoothing	466			x				x					
Lined Waterway or Outlet	468	x											
Livestock Shade Structure	*	x											
Livestock Stream Crossing	*	x											
Livestock Use Area Protection	*	x											
Livestock Exclusion	472	x											
Livestock Waste Composting Facility	317	x	x										
Livestock Waste Management System	312	x	x										
Livestock Waste Storage Facility	313	x	x										
Livestock Waste Storage Pond	425	x	x										
Livestock Waste Treatment System Lagoon	359	x	x										
Long Term No-Till	329	x											
Manure Transfer	634	x	x										
Mole Drain	482	x											
Monitoring Well	353	x	x								x		
Mulching	454	x	x	x		x				x	x	x	
Native Plant Community Restoration & Management	767	x	x		x		x	x	x	x	x	x	
Natural Channel Restoration	*	x	x		x		x	x		x	x	x	
Nutrient Management	590	x											
Obstruction Removal	500	x											
Onsite Wastewater Treatment System Projects	110												x
Open Channel	582	x											
Organic Crop Production	14	x											
Pasture & Hayland Management	510	x											
Pasture & Hayland Planting	512	x											
Pasture & Hayland Planting Reseeding	512r	x											
Pest Management	595	x										x	
Pesticide Risk Reduction	596	x	x			x	x		x	x	x	x	x
Pipeline	516	x	x		x				x	x	x	x	x
Planned Grazing System	*	x											

Best Management Practice	NRCS code or other KDHE accepted standard (*)	Agriculture	Commercial, Institutional	Construction	Hydrologic modification	Land Disposal	Recreation	Resource Extraction /Exploration/ Development	Silviculture	Transportation	Urban/ Industrial areas	Utility Corridors	Rural Homes
Pond Construction	538	x	x	x			x			x			
Pond Sealing or Lining	521	x	x	x			x			x			
Pond Sealing or Lining - Bentonite Sealant	521C	x	x	x			x			x			
Pond Sealing or Lining - Flexible Membrane	521A	x	x	x			x			x			
Pond Sealing Lining - Natural Clay	521D	x	x	x			x			x			
Pond Sealing or Lining - Soil dispersant	521B	x	x	x			x			x			
Pothole - Wetland for Wildlife	*	x											
Precision Land Forming	462	x	x	x	x								
Prescribed Grazing	528	x											
Private Drinking Water Supply Code/Ordinance	22												x
Pumped Well Drain	532	x			x		x						
Pumping Plant for Livestock Water Supply	553	x											
Raingarden/Biotention Basin	*		x								x		x
Range Planting	550	x											
Range Planting Reseeding	550r	x											
Rangeland Fertilization	721	x											
Record Keeping	748	x											
Recreation Area Improvement	562						x						
Recreation Land Grading & Shaping	566						x						
Recreation Trail & Walkway	568						x						
Regulating Water in Drainage Systems	554	x	x			x	x			x	x	x	
Recycling	15	x	x				x				x		x
Reduce In-Lake Total Phosphorus	*						x						
Residue Management	529	x											
Residue Management - Mulch Till	345	x											
Residue Management - No-Till & Strip Till	329a	x											
Residue Management - Ridge Till	346	x											
Restoration & Management of Declining Habitats	643	x					x			x	x	x	

Best Management Practice	NRCS code or other KDHE accepted standard (*)	Agriculture	Commercial, Institutional	Construction	Hydrologic modification	Land Disposal	Recreation	Resource Extraction /Exploration/ Development	Silviculture	Transportation	Urban/ Industrial areas	Utility Corridors	Rural Homes
Restoration of Compacted Soils	775	x											
Rinse Water Control	746	x											
Riparian Buffers - Vegetative	*	x	x		x		x	x	x	x	x	x	x
Riparian Forest Buffer	391	x	x		x		x	x	x	x	x	x	x
Riparian Forest Improvement	666	x	x						x	x	x	x	
Riparian Herbaceous Cover	390												
Riparian Buffer Protection Code/Ordinance	*		x		x		x				x		
Riprap Shoreline	*	x					x						
Road Ditch Creation/Improvements	*									x			
Road/Landing Removal	*									x			
Rock Barrier	555	x											
Roof Runoff Management	558	x	x								x		x
Row Arrangement	557	x											
Runoff Filter	16												
Runoff Management System	570	x											
Salinity Sodic Soil Mgmt	610												
Salt or Deicer Storage Facility	*		x							x	x		
Secondary Fuel Containment	*	x	x					x		x	x		x
Sediment Basin	350	x	x	x						x	x		
Sediment Forebay	*		x	x						x	x		
Seeding (Revegetation)	42	x	x	x						x	x		
Shallow Water Management for Wildlife	656	x									x		
Silage Leachate Collection & Transfer	765	x											
Silvopasture Establishment	381	x							x				
Silvopasture Management	*	x							x				
Slope Roughening	726	x											
Soil Salinity Control		x											
Soil Salinity Management - Non-irrigated	571	x											
Soil Spreading	572	x									x		
Spring Development	574	x											x
Stormwater Wet Detention / Chemical Treatment System	*		x								x		

Best Management Practice	NRCS code or other KDHE accepted standard (*)	Agriculture	Commercial, Institutional	Construction	Hydrologic modification	Land Disposal	Recreation	Resource Extraction /Exploration/ Development	Silviculture	Transportation	Urban/ Industrial areas	Utility Corridors	Rural Homes
Stream Channel Restoration (Dam Removal)	9	x			x						x		
Stream Channel Stabilization	584	x									x		
Stream Corridor Improvement	745	x									x		
Stream Crossing	578	x											
Stream Habitat Improvement & Management	395	x	x								x		
Streambank & Shoreline Protection	580	x	x		x						x		
Stream Protection Repair	580r	x	x		x						x		
Strip - Intercropping	758	x											
Stripcropping	585	x											
Subsurface Drain	606	x											
Surface Drainage - Field Ditch	607	x											
Surface Drainage - Main or Lateral	608	x											
Surface Roughening	609	x											
Surface Wetting	760	x											
Swimming Pool Backwash WW Reuse Dispersed Irrigation	*						x				x		x
Swimming Pool Backwash WW Reuse Dust Suppression	*						x				x		x
Tank/Trough	614	x											
Terrace	600	x											
Toxic Salt Reduction	610	x											
Trail Closure	41												
Transition to Organic Production	*	x											
Trash Dump Removal (and clean up)	18	x		x		x	x	x			x	x	x
Trash and Litter Control	17		x							x	x	x	
Tree/Shrub Establishment	612								x				
Tree/Shrub Preparation	490								x				
Two Stage Ditches	88												
Tree/Shrub Pruning	660	x							x				
Underground Outlet	620	x											
Unpermitted Above Ground Storage Tank	700	x											x
Unpermitted Dump Site- Remediation	120	x	x	x		x	x	x	x	x	x	x	x

Best Management Practice	NRCS code or other KDHE accepted standard (*)	Agriculture	Commercial, Institutional	Construction	Hydrologic modification	Land Disposal	Recreation	Resource Extraction /Exploration/ Development	Silviculture	Transportation	Urban/ Industrial areas	Utility Corridors	Rural Homes
Upland Wildlife Habitat Management	645	x					x						
Urban Catch Basin	901		x										
Urban Catch Basin - Oil	902		x								x		
Urban Catch Basin - Sand	903		x								x		
Urban Concrete Grid	904		x								x		
Urban Exterior Detention Pond	905		x								x		
Urban Filtration Basin	906		x								x		
Urban Grassed Swale	907		x								x		
Urban Infiltration Basin	908		x								x		
Urban Infiltration Trench	908		x								x		
Urban Porous Pavement	910		x								x		
Urban Stormwater Wetland	911		x								x		
Urban Vegetated Filter	912		x								x		
Urban Wet Pond	913		x								x		
Use Exclusion	472												
Variable Application Rate Technology	70	x											
Vegetated Swales	66		x								x		
Vegetative Buffer Strips	741	x			x						x		
Vegetated Treatment Area	635	x											
Vertical Drain	630		x								x		
Vortech Units (urban stormwater)	*		x								x		
Waste Facility Cover	367	x											
Waste Field Storage Area	749	x											
Waste Management System	312	x											
Waste Storage Facility	313	x											
Waste Storage Pond	425	x											
Waste Transfer	634		x										
Waste Treatment Lagoon	359	x											
Waste Utilization	633	x											
Waste Water Irrigation	732	x	x								x		
Waste Water Treatment Strip	635	x											
Waste Water and Feedlot Runoff Control	784	x											
Water & Sediment Control Basin	638	x		x									

Best Management Practice	NRCS code or other KDHE accepted standard (*)	Agriculture	Commercial, Institutional	Construction	Hydrologic modification	Land Disposal	Recreation	Resource Extraction /Exploration/ Development	Silviculture	Transportation	Urban/ Industrial areas	Utility Corridors	Rural Homes
Waste Utilization	633	x											
Water Harvesting Catchment	636	x	x				x	x			x		x
9 Element Watershed Management Plan	*												
Water Conservation	19	x											
Water Control Structure	587	x	x								x		
Watering Facility	614	x											
Water spreading	640	x											
Water well	642	x	x								x		
Water Well Decommissioning	351	x											x
Water Well Plugging	700	x	x										x
Water Well Recommissioning (if inactive)	*	x											
Water Well Sanitary Seal	*	x											x
Wetland Acquisition-protection	6	x	x		x		x				x		
Wetland Creation	658	x	x		x		x				x		
Wetland Enhancement	659	x	x		x		x				x		
Wetland Restoration	657	x	x		x		x				x		
Wetland Wildlife Habitat Management	644	x	x		x		x				x		
Wind Barrier - Herbaceous	422A	x											
Windbreak/Shelterbelt Establishment	380	x											
Windbreak/Shelterbelt Renovation	650	x											
Woodland Pruning	763								x		x	x	x

Characteristics of Properly Functioning Watersheds	
Function	Characteristics
Food, Fiber and Bio-fuel Production	
Cropland	<p>Cropland has conservation measures and practices intended to limit sheet and rill erosion to tolerable (T) rates</p> <p>Nutrient application occurs according to agronomic rate needs. Application levels do not exceed soil storage/plant uptake capacities based on soil test recommendations and risk analysis results.</p> <p>Soil nutrient levels do not exceed crop needs based on realistic yield goals and appropriate acidity (pH) levels are maintained.</p> <p>Chemical application rates are appropriate for the crop and occur in quantities that ensure minimal runoff to surface or ground waters.</p> <p>Application of all chemicals is minimized during in unsuitable climatic conditions.</p> <p>Pesticides are applied, stored, handled and disposed of so that residues in the soil do not adversely affect non-target plants and animals.</p>
Grazing Land	Grazing land is in good condition and stocking rates are optimal for maintenance of healthy cover to reduce runoff, soil erosion, and provide habitat. Grazing practices enhance wildlife populations and diversity of the ground cover.
Forest Land	Forest land is managed sustainably for all forest resources including soil and water, wildlife and fish habitat, recreation and aesthetics, and timber and other forest products.
Livestock Production	<p>All livestock production enterprises have “no significant pollution potential”</p> <p>All feedlots have a water pollution control permit appropriate to the capacity of the facility and in compliance with the terms and conditions of the permit.</p> <p>Livestock manure is used as a crop nutrient, is applied in amounts appropriate for the site and crop.</p> <p>Grazing livestock enterprises following a grazing management plan that protects waters quality and assures sustainable forage.</p> <p>Livestock use of riparian areas assures no damage to riparian area resources and functions.</p>
Riparian Land and Wetlands	<p>Riparian land is covered with permanent vegetation appropriate to the landscape setting.</p> <p>Stream channels are connected to their floodplains and functioning appropriately.</p> <p>Wetlands are mapped and delineated and their beneficial functions are maintained.</p> <p>Streambank soil loss does not exceed a level commensurate with upstream land use and normal geo-morphological processes on site.</p>
Wildlife, Threatened and Endangered	Wildlife is healthy and populations are at appropriate levels

Characteristics of Properly Functioning Watersheds

Function	Characteristics
Food, Fiber and Bio-fuel Production	
Species, and Biodiversity	<p>Habitat of threatened and endangered species is mapped and management practices are in place to maintain and enhance habitat. Habitat is managed to avoid actions that would reduce their current population, health, or sustainability.</p> <p>Policies and practices are in place and applied to minimize impacts of introduced and invasive species and to minimize their spread.</p> <p>The ecosystem or habitat types support the necessary plant species in the kinds, amounts, and physical structure; and the connectivity of fish and wildlife cover is adequate to support, over time, the species of concern.</p>
Flooding	<p>The flood plain of the 1 percent chance flood is adequately defined and mapped.</p> <p>Floodplain development is properly managed to minimize future flood damage and losses.</p> <p>Excess water amounts and/or rates of flow are controlled consistent with desired present or intended land use goals and wetland policies.</p>
Point Source Pollutants	All point source pollutants have wastewater discharge permits, which specify effluent limits that assure that point sources will not cause a violation of Kansas' water quality standards.
Nonpoint Pollutant Sources	<p>All surface water meets the standards set out by KAR or TMDLs with implementation plans are in place that assure surface water will meet water quality standards.</p> <p>All activities not required to have a wastewater discharge permit that can result in a discharge of pollutants or alteration of the physical, chemical and biological properties of surface and groundwater are conducted in a manner that minimizes the water quality impacts of these activities.</p> <p>Water bodies and contributing source areas are treated to allow sufficient water storage for present and intended uses.</p>
Ground Water Quality	<p>Groundwater will be free of substances associated with agricultural, industrial and urban activities and be typical of the mineral characteristics of aquifer geology.</p> <p>Pesticides, nutrients and organics are applied, stored, handled, disposed of, and managed so that groundwater uses are not adversely affected.</p>
Water Diverted for Consumption	Water diversions for consumptive purposes are limited such that surface water stream flows are not depleted below the level needed to sustain aquatic life, riparian plants and aesthetic values of the watercourse.
Groundwater Quantity	<p>All water diverted for consumptive uses is used appropriately and efficiently.</p> <p>Groundwater diversions do not exceed the annual recharge rate.</p> <p>Groundwater diversions do not interfere with or impair surface water flows.</p> <p>Authorized uses and management of water are coordinated to minimize the impacts on water course flows.</p>
Landscape Conversion and Development	Development activities are sensitive to critical landforms (prime or important farmlands, groundwater recharge areas, etc.), hydrologic characteristics, and natural landscapes and cultural resources of the watershed are protected.

Characteristics of Properly Functioning Watersheds	
Function	Characteristics
Food, Fiber and Bio-fuel Production	
	<p>Development activities do not exacerbate localized flooding or result in increased runoff causing accelerated erosion from the land surface or streambanks.</p> <p>Development sites are adequately protected from soil loss during and after road building and construction activities</p> <p>Important cultural and historical sites are identified and appropriately protected from loss.</p>
Recreation	<p>Water recreation activities are available</p> <p>Water recreation activities are not impaired by pollution or other hazards.</p>

Appendix 5

STATE AND FEDERAL NONPOINT SOURCE POLLUTION RELATED PROGRAMS AND AUTHORITIES		
Agency	Program	Authorities
State Agencies		
Kansas Department of Health and Environment	<ul style="list-style-type: none"> • Water Quality Monitoring and Assessment • Watershed Planning (TMDL Program) • Watershed Management (NPS Program) • Water Quality Certification • Livestock Waste Management • Water Pollution Control Program (Municipal and Industrial) • Public Water Supply Program • Water Wells, Underground Injection Control and Underground Hydrocarbon and Natural Gas Storage Programs • Environmental Remediation – State Cooperative Program • State Water Plan Contamination/Remediation Program • Site Assessment Program • State Brownfields Program • Petroleum Storage Tank Program • Natural Resource Damage and Assessment Program • Spill Program 	<ul style="list-style-type: none"> • K.S.A. 65-156 <i>et seq</i> • K.S.A. 75-5657 • Federal Clean Water Act, Sections 101(a)(7), 319 and 401 • K.S.A. 65-171 <i>et seq</i> • K.S.A. 65-3453 <i>et seq</i> • K.S.A. 65-34 and 161 <i>et seq</i> • K.S.A. 82a-927 <i>et seq</i> • K.S.A. 82a-1201 <i>et seq</i> • K.S.A. 55-1,117 • Federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) • Federal Small Business Liability Relief & Brownfields Revitalization Act • K.S.A. 75-5672, K.S.A. 65-161 and K.S.A. 65-171a,j,u
Kansas Department of Agriculture	<ul style="list-style-type: none"> • Fertilizer Program • Pesticide Program • Water Structures Program • Water Appropriations Program - Minimum Desirable Streamflow 	<ul style="list-style-type: none"> • K.S.A. 2-1201 <i>et seq</i> • K.S.A. 2-2438 <i>et seq</i> • K.S.A. 2-2201 <i>et seq</i> • K.S.A. 82a-301 <i>et seq</i> • K.S.A. 12-766; 24-105; 24-126 • K.S.A. 82a-703a, b and c • Federal Insecticide, Fungicide and Rodenticide Act (FIFRA)
Kansas Department of Wildlife and Parks	<ul style="list-style-type: none"> • Pollution and Fish Kill Investigations • Conservation Easements (Wetlands & Riparian Areas) • Environmental Services • Wildlife Habitat Improvement Program (WHIP) • Stream Survey and Assessment Program 	<ul style="list-style-type: none"> • K.S.A. 32-702, 32-703, 32-801 • K.S.A. 32-807, K.S.A. 58-3810 <i>et seq</i> • K.S.A. 32-107, 32-501
Kansas Department of Agriculture: Division of Conservation	<ul style="list-style-type: none"> • Water Resources Cost-Share Program • Non-Point Source Pollution Control Program • State Assistance to Watershed Dam Construction • Riparian & Wetland Protection Program • Water Quality Buffer Initiative 	<ul style="list-style-type: none"> • K.S.A. 2-1915 as amended • K.S.A. 2-1902 • K.S.A. 2-1904
Kansas Water Office	<ul style="list-style-type: none"> • State Water Planning • Basic Data Collection and Research Coordination • Public Information, Education and Outreach 	<ul style="list-style-type: none"> • K.S.A. 82a-901 <i>et seq</i> • K.S.A. 74-2608

Appendix 5

Kansas State University Research and Extension	<ul style="list-style-type: none"> • Water Quality Programs • Watershed Specialist Program • WRAPS Technical Team • Water LINK, Citizen Science, Healthy Ecosystems-Healthy Communities, E.A.R.T.H. educational programs • Rangeland and Natural Area Services • Kansas Environmental Leadership Program • Kansas Water Resources Research Institute 	<ul style="list-style-type: none"> • Federal Hatch, Smith Lever and subsequent acts • K.S.A. 2-608 as amended
Kansas Forest Service	<ul style="list-style-type: none"> • Forest Stewardship Program • Riparian Forestry Program • Conservation Tree Planting Program • Landowner and Environmental Education • Community Forestry Program 	<ul style="list-style-type: none"> • K.S.A. 76-452d
Kansas Biological Survey	<ul style="list-style-type: none"> • Applied Science & Technology for Reservoir Assessment • Natural Heritage Inventory • Applied Remote Sensing Program • Central Plains Center for BioAssessment • Field Station and Ecological Resources 	<ul style="list-style-type: none"> • K.S.A. 76-338 • K.S.A. 74-6601 <i>et seq</i>
Kansas Geological Survey	<ul style="list-style-type: none"> • Groundwater Contamination Analysis 	<ul style="list-style-type: none"> • K.S.A. 76-322
Kansas Corporation Commission	<ul style="list-style-type: none"> • Plugging and Temporary Abandoned Wells • Environmental Projects and Surface Ponds • Underground Injection Control • Abandoned Well Plugging and Site Remediation Fund 	<ul style="list-style-type: none"> • K.S.A 55-152 <i>et seq</i> • K.S.A. 55-179 <i>et seq</i>
Federal Agencies		
US Environmental Protection Agency	<ul style="list-style-type: none"> • Water, Wetlands and Pesticides Divisions • Toxics and Pesticides Branch • Watershed Planning and Implementation Branch • Water Quality Management Branch • Drinking Water Management Branch 	<ul style="list-style-type: none"> • Federal Clean Water Act • Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) • Federal Safe Drinking Water Act
US Department of Agriculture, Natural Resources Conservation Service	<ul style="list-style-type: none"> • Conservation Compliance • Conservation Stewardship Program • Environmental Water Quality Incentives Program • Farm and Ranch Lands Protection Program • Plant Material Program • Resource Conservation and Development Program • Wetland Mitigation Banking • Wetland Reserve Program • Wildlife Habitat Incentives Program • Conservation Technical Assistance • Technical Resources – National Resources Inventory • Kansas Grazing Land Coalition 	<ul style="list-style-type: none"> • 1985 Food Security Act (FSA) • 1990 Food Agriculture Conservation and Trade Act • 1996 Federal Agriculture Improvement and Reform Act • Water Resources (FAIRA) Development Act 1990, Section 307(d) • 1996 FAIRA reauthorized under P.L. 104-127, 107-171 and 110-234 • P.L. 74-46, 87-703 and 97-98 as amended • 16 U.S.C. 3837 <i>et seq</i> and amended under P.L.110-246

Appendix 5

US Department of Agriculture, Farm Service Agency	<ul style="list-style-type: none"> Conservation Reserve Program 	<ul style="list-style-type: none"> 1985 Food Security Act (FSA) 1990 Food Agriculture Conservation and Trade Act 1996 Federal Agriculture Improvement and Reform Act
US Army Corps of Engineers	<ul style="list-style-type: none"> Planning Assistance to States Regulatory Program Environmental Restoration 	<ul style="list-style-type: none"> Federal Water Resource Development Act (WRDA) 1974, Section 22 as amended Federal Rivers and Harbors Act of 1899, Section 10 and Federal Clean Water Act, Section 404 P.L. 99-662 as amended, Section 1135 WRDA 1996, Section 206
US Geological Survey	<ul style="list-style-type: none"> Water Resources Data Interpretive Studies in Water Quality, Surface and Ground Water Hydrology 	<ul style="list-style-type: none"> Organic Act of 1879 (20 Stat. 394; 43 U.S.C 3); Act of 1888 (25 Stat. 526); Act of 1896 (29 Stat. 453); Act of 1902 (32 Stat. 741; 44 U.S.C. 1318)
US Fish and Wildlife Service	<ul style="list-style-type: none"> Environmental Contaminants Ecological Services Partners for Wildlife (Private Lands Program) 	<ul style="list-style-type: none"> Fish and Wildlife Act of 1956; Fish and Wildlife Coordination Act; Anadromous Fish Conservation Act; National Environmental Policy Act; River and Harbor Act of 1899; FIFRA; Toxic Substances Control Act; Clean Water Act; CERCLA; Marine Protection, Research and Sanctuaries Act; Resource Conservation and Recovery Act of 1976; Surface Mining Control and Reclamation Act of 1977; Migratory Bird Treaty Act; and Endangered Species Act

Source: *State and Federal Water Programs Manual*, Kansas Water Office, 2009. Available online at: http://www.kwo.org/Reports%20%26%20Publications/Rpt_Programs_Manual_2009.pdf
Please refer to this document for program descriptions and contact information.

APPENDIX SIX

Kansas Nutrient Reduction Framework

	Framework Goal						
	①	②	③	④	⑤	⑥	⑦
Role	Prioritize Watersheds for N & P Reduction	Set Watershed Load Reduction Goals w/HUC 8 Priority Watersheds	Ensure Effectiveness of NPDES in Targeted Watersheds	Target Most Effective Ag Practices	Identify Tools for Small Town Stormwater and Septic Tank Reductions	Establish Accountability Tracking	Annual Reporting for Targeted Sub-Watersheds
A State Agencies, Including KSU	<ul style="list-style-type: none"> Lead prioritizing exercise Produce prioritized watershed list based on stakeholder input and NPS Management Plan analysis of HUC 8 loads 	<ul style="list-style-type: none"> Develop initial load reduction goals Consider sources, local ability to implement, availability of data, geographic scope, weather-related and seasonal variables, and the potential impacts on current stakeholder operations Finalize load reduction goals after stakeholder input 	<ul style="list-style-type: none"> Develop stormwater and wastewater NPDES permits incorporating watershed load reduction goal Enforce NPDES permits Incorporate w/WRAPS 	<ul style="list-style-type: none"> Implement WRAPS plans in priority HUC 12s Direct targeted funds to key Conservation Districts 	<ul style="list-style-type: none"> Where warranted in a watershed plan, direct WRAPS implementation to small town sources 	<ul style="list-style-type: none"> Develop annual report format and metrics Monitor targeted HUC 8s and 12s 	<ul style="list-style-type: none"> Collate annual data and reports Develop annual report for stakeholder review that accounts for weather-related and seasonal variables and describes the impact of implemented practices on current stakeholder operations Distribute report to WRAPS, NPDES, and stakeholders to encourage strategy changes where it is necessary and supported by sufficient evidence
B Agriculture Stakeholders	<ul style="list-style-type: none"> Include priorities based on likely active participation, considering potential impacts to operations 	<ul style="list-style-type: none"> Estimate attainable ag reduction levels w/ next 10 yr timeframe considering geographic scope, weather-related and seasonal variables, local leadership, likely participation, potential impacts on current operations, and current loads Review initial load reduction goals 	<ul style="list-style-type: none"> Ensure AFOs continue to operate with no significant potential to pollute pursuant to KDHE standard protocol for assessing pollution potential 	<ul style="list-style-type: none"> Promote nutrient reduction information and education through KSU and WRAPS cooperators Promote use of state and USDA funds for nutrient reduction practices Work with USDA and other federal agencies to target and prioritize available funding Encourage ag producer participation in targeted HUC 12s Seek Legislative support for funding and implementation 		<ul style="list-style-type: none"> Use WRAPS to report on BMP installation 	<ul style="list-style-type: none"> Comment on draft annual report Distribute final report to constituencies Encourage incorporation of results in plans for next year, taking into account weather-related and seasonal variables, and potential impacts on current operations
C Local Government Stakeholders	<ul style="list-style-type: none"> Indicate priorities based on likely Major NPDES implications 	<ul style="list-style-type: none"> Indicate attainable municipal reduction levels in next 5-10 yrs Review initial load reduction goals 	<ul style="list-style-type: none"> Facilitate investment in nutrient reduction treatment design, operation, and maintenance Monitor nutrient level of wastewater and stormwater Incorporate green infrastructure to reduce stormwater runoff 	<ul style="list-style-type: none"> Where applicable, encourage ag implementation in PWS watersheds through cost share arrangements (e.g. Wichita and Cheney Res) 	<ul style="list-style-type: none"> Assist in identifying towns Provide elected official education through LKM, KAC, & NEMO Provide technical staff education though LKM & KAC Deliver tools through KMU and other utility groups Seek Legislative support for implementation Maintain proper lagoon O&M 	<ul style="list-style-type: none"> Provide DMRs, study reports, and reports on stormwater and wastewater treatment investments 	<ul style="list-style-type: none"> Comment on draft annual report Distribute final report to constituencies Adjust plans based on results

	Framework Goal						
	①	②	③	④	⑤	⑥	⑦
Role	Prioritize Watersheds for N & P Reduction	Set Watershed Load Reduction Goals w/HUC 8 Priority Watersheds	Ensure Effectiveness of NPDES in Targeted Watersheds	Target Most Effective Ag Practices	Identify Tools for Small Town Stormwater and Septic Tank Reductions	Establish Accountability Tracking	Annual Reporting for Targeted Sub-Watersheds
<div>D</div> Environmental Stakeholders	<ul style="list-style-type: none">Indicate priorities based on top environmental and recreation resources	<ul style="list-style-type: none">Review initial load reduction goalsIdentify environmental benefits of derived reduction goals	<ul style="list-style-type: none">Promote participation of utilities in the WRAPS process	<ul style="list-style-type: none">Promote producer participation in WRAPS process	<ul style="list-style-type: none">Promote small town/rural community participation in WRAPS process	<ul style="list-style-type: none">Report on local perception of water quality	<ul style="list-style-type: none">Comment on draft annual reportDistribute final report to constituencies

Framework Goal 8 – Develop Workplan and Schedule for Numeric Criteria Development

- Framework goal 8 is exclusively a state government task. To be successful, that task will require significant stakeholder outreach, which is inherent in each subtask. The proposed tasks to achieve Goal 8 are:
 - Establish N & P criteria for streams and lakes currently achieving all designated uses
 - Establish chlorophyll-a criteria for public water supply lakes
 - Establish causal and response variable criteria for impaired waters when they have been restored to full support of designated uses.

APPENDIX SEVEN
STRATEGIC PLAN FOR NPS MANAGEMENT
2018 ACCOMPLISHMENT UPDATE

- A. **2024 Goal:** Support local and state institutional capacity to address NPS issues and priorities.

Objectives

1. Maintain base funding and technical assistance for implementation of BMPs through local, state and federally funded NPS related programs administered through local, state and federal agencies.

Strategies

- a. Coordinate with state agencies through the State Water Planning Process to maintain State Water Plan funding for nonpoint source pollution control programs administered through the DOA - DOC, and the KDHE. *Update: Working through the State Water Plan Process multi-agency coordination has been accomplished in a variety of ways. Though funding has been reduced in recent years for nonpoint source pollution control programs administered by DOA-DOC and KDHE, progress has been made toward restoring this funding and/or creating new funding categories in the State Water Plan Fund that can be utilized to address nonpoint source pollution issues in Kansas. Through years of collaboration between state agencies and informing the Kansas Water Authority of the importance of nonpoint source issues, funding from the State Water Plan has been directed toward the KS WRAPS Program, the Interagency Streambank Coordination Team, and the Interagency BMP Implementation Team. In SFY 18, \$1,000,000 in State Water Plan funds were awarded to the Interagency Streambank Coordination Team to reduce sedimentation in Federal Reservoirs through streambank stabilization and riparian area restoration projects. This is supplemental funding to the group which has utilized more than \$4M through multiple state and federal funding sources in the past 4 years to complete projects. Additionally, in SFY 19, the Kansas WRAPS Program was awarded restorative funding through the State Water Plan fund and the Interagency BMP Implementation Team was awarded \$900,000 for the implementation of sediment reducing BMPs in priority watersheds.*
- b. Participate on the Kansas Technical Committee and work with NRCS and FSA to ensure federal funding is being directed to address NPS priority issues to the extent possible through applicable federal programs such as EQIP and CRP. *Update: KDHE annually attends Kansas Technical Subcommittee and Full KTC meetings in which federal programs providing Kansas agricultural producers funding for BMPs that can address nonpoint sources of pollution are discussed in detail. At the subcommittee meetings, agencies in attendance are given the opportunity to review current ranking and distribution mechanisms used by these programs and provide feedback. KDHE routinely provides feedback regarding how to reorganize, score or*

word the ranking criteria. This feedback generally helps focus federal funds towards BMPs in WRAPS Project high priority areas, and to some extent on pollutant types being addressed. Due to existing program rules, restrictions, and directives, NRCS cannot always accept KDHE recommendations, however, many changes have been made in recent years to NRCS funding ranking criteria that helps directs funding toward NPS Management Plan priorities.

- c. Support the development of water quality protection plans and implementation of water quality BMPs for activities and projects not addressed through other programs that could adversely affect water quality. *Update: There is a long-standing partnership between State agencies, Federal agencies, businesses, municipalities, and developers, etc. to provide whatever services necessary to ensure water quality BMPs are a consideration during construction and other activities. KDHE routinely handles phone calls and email inquiries regarding general water quality issues and provides available technical assistance.*
- d. Utilize the 401 Water Quality Certification process where applicable to address potential NPS issues for specific projects and develop local water quality protection plans when applicable. *Update: Clean Water Act Section 404 & Kansas Environmental Coordination Act: address activities that in some way modify stream channel cross section. Section 404 authorizes the U.S. Army Corps of Engineers to administer a program of permitting the discharge of dredge and fill material to the nation's waterways. Permits may not be issued until the State has issued, pursuant to Clean Water Act Section 401, a statement certifying the activity is not likely to violate State Water Quality Standards. Approximately 5,300 CWA Section 401 water quality certifications issued in conjunction with the US Army Corps of Engineers CWA Section 404 nationwide permits and 400 water quality certifications issued for individual 404 permits.*
- e. Promote better integration of water quality protection with local land use planning and development processes to avoid or mitigate future NPS pollution problems. *Update: Agency coordination occurring toward this goal includes, discussions between municipalities regarding integrating water quality BMPs in city development plans and state and federal partnership development. The City of Wichita and the Little Ark WRAPS Project have forged a partnership that directly integrates water quality protection with local land use planning. In July 2016, the City of Wichita entered into an agreement with Kansas State University (KSU) to implement an offsite water quality best management practice (BMP) program as part of their NPDES MS4 permit. The program framework was developed through collaboration among the City and its Stormwater Advisory Board, KSU, and the Kansas Department of Health and Environment in 2015. This framework was developed with the intent of integrating water quality efforts more effectively across the predominantly agricultural watersheds of which Wichita is a part, thus optimizing the placement of BMPs within the watershed and the economic efficiency with which water quality goals are met. The program provides new and redevelopment properties within the*

City the option to pay a fee to participate in the offsite program in lieu of implementing water quality BMPs onsite. (However, even if a property opts to participate in the offsite program, they are still required to meet peak flow and other hydraulic targets on site.) Fees paid into the offsite program are then used to pay producers upstream to implement water quality practices through the watershed's existing WRAPS project. Producers on fields with the highest erosion potential, as identified through previous assessment and the EPA Nine Element Plan prepared by WRAPS, are targeted as the recipients of these funds. Sediment was used as the basis of the offsite fee developed for this program since it is a priority pollutant in the Little Arkansas and other watersheds of which Wichita is part. The fee paid by developers and/or property owners participating in the offsite program is assessed on an annual basis, and was set based on the cost to implement and maintain no-till with intensive crop rotation, which is the most common water quality BMP adopted by producers in this region, at a 2:1 pollution offset ratio (that is, for every one ton of sediment predicted to be generated in runoff onsite, offsite BMPs must sequester two tons).

At the state level, local WRAPS groups have helped form working groups between state and federal agencies such as KDHE, USACE and KDWPT to develop management techniques that mitigate water quality issues on Corps owned and/or managed lands adjacent to Federal Reservoirs in Kansas.

- f. Provide adequate technical assistance to implement water quality BMPs through collaborative partnerships among local, state and federal agencies and conservation organizations. *Update: BMP implementation requires a large amount of technical assistance and to ensure Kansas has a steady level of this service, KDHE, KDWPT, DOA-DOC and the KFS have all entered into a technical assistance partnership with Kansas NRCS. Through this partnership, each agency provides an annual monetary contribution, matched by NRCS, to hire, train, and house NRCS technician positions in high workload areas. These areas include high priority WRAPS Project areas, counties with high workloads due to large amount of agricultural land use, and areas with special initiatives such as the Regional Conservation Partnership Program or the National Water Quality Initiative.*
- g. Maintain a statewide monitoring program to assess water quality conditions and determine attainment of water quality standards. *Update: Currently, the KDHE stream chemistry sampling network is comprised of 324 monitoring sites spanning all the major river basins and physiographic regions of Kansas. Of those, 161 permanent sites are sampled on a quarterly basis every year, while the remaining 163 rotational sites are monitored using a four-year rotational approach; i.e., samples are collected quarterly from approximately 25 percent of these sites each year. The earliest records in KDHE's stream chemistry database date to the late 1960s, and some monitoring sites have a continuous period-of-record extending from that time to the present. Additionally, water quality information currently is obtained from 122 lakes and wetlands distributed throughout the state. These*

include all 24 federal reservoirs, most state-administered fishing lakes (those retaining open water in most years), various other state, county or locally owned lakes, several privately owned but publicly accessible lakes, and seven state or federally owned marshes. The program's primary database comprises about 250,000 analytical records representing approximately 300 water bodies and more than 100 different analytical parameters.

- h. *Inform local and state decision-makers of program accomplishments through publication and dissemination of program summaries, fact sheets and other media. Update: Whenever possible, local and state decision-makers are made aware of the nonpoint source pollution issues and the accomplishments of Kansas programs working toward water quality improvement. Meetings and conferences such as the Governor's Water Conference, the Kansas Agricultural Summit, Legislative tours, Association of Clean Water Administrators are attended in which there is an opportunity to converse with decision makers of every level including federal. In addition, a multitude of fact sheets and program accomplishment summaries, etc. are created on a regular basis to be provided to audiences such as the Kansas Water Authority and others as conversations are held throughout the State Water Planning Process.*
- 2. *Provide adult and youth educational opportunities for multiple audiences including local citizens, community leaders, landowners, contractors and youth to develop an informed citizenry regarding water quality issues.*

Strategies

- a. *Support adult NPS education through the Kansas Environmental Leadership Program or similar program to provide multi-disciplinary water quality training to local agency staff, basin advisory committee members, WRAPS stakeholder leadership team members, community leaders, landowners, contractors and other audiences. Update: The Kansas Environmental Leadership Program (KELP) through Kansas State University provided a program targeted to water resource professionals and citizens interested in water resources to obtain a better understanding of Kansas related concerns, programs, and strategies. Starting in 2011, KELP became unable to provide an up to date program that interested further participation and decided to end the program in 2013. Since the ending of KELP, agencies began providing adult NPS education with various strategies. Regional field days are hosted yearly to promote water quality and other water resource related materials. These field days provide an on the ground look at new, innovative best management practices such as livestock feeding site relocations, alternative water systems for livestock, cover crops, soil health principles, and immersing water technologies. The regional and local approach allow Kansas citizens to understand the local water quality issues and see firsthand the strategies being implemented to mitigate the issues.*

- b. Support youth education through programs that instill an understanding and appreciation for water resource protection, restoration and conservation in future generations *Update: Youth education programs have been performed by various agency each year regarding water resources. County conservation districts throughout the state host water festivals focused on local schools. Grades between second and sixth experience a day learning about various water related subjects from agencies and organizations working to improve water quality, quantity, and other related issues. Many agencies promote and contract with the Kansas Association for Conservation and Environmental Education (KACEE). KACEE provides training and workshops to both formal and non-formal education providers in many topics including water resources, energy, waste, and air. Active programs that KACEE promotes are Project Learning Tree, Project Wet, and Kansas Green Schools. Each program offers educators the capacity to add water resource related topics to many of the required teaching subjects in the school year.*
- c. Include information and education components in all local NPS plans (e.g. WRAPS, DWP, LEPP) *Update: Education is seen as a vital and needed strategy to assist with the implementation of all nonpoint source (NPS) plans in the state of Kansas. WRAPS plans outline education strategies, needs, and potential resources as one of the EPA required Nine Elements in watershed planning. Drinking Water protection plans that are currently being developed will include information and education components to assist public water supplies protect their source water. LEPP and local county NPS plans are encouraged to include any information and education component to their planning to assist with meeting regulations and the implementation of best management practices for NPS related programs.*
- d. Coordinate with local extension and other outreach programs at the community level that address water quality education for youth and adults. *Update: Through the governor's 50 water vision for the water and future of Kansas, an education committee was established to promote the education on water resources for both youth and adults. Many agencies, nonprofit organizations, and formal/non-formal education professionals worked together to create an education plan for the state of Kansas in regard to water resources. Strategies include making a common message to Kansas citizens on the importance of water resources and create a central location for education providers to obtain sound, non-bias education materials. Implementation of the strategy is set to begin by FY 2019.*
- e. Develop and implement a statewide public relations strategy to better inform Kansas citizens about water quality issues and opportunities to address them through involvement and participation in local, state and federal water quality programs and projects *Update: A full public relations strategy has not been completed to date. Work has begun to reach out to Kansas citizens through social media by KDHE through a KS WRAPS facebook page to share information on WRAPS projects, water quality information, and educational events that promote practices to mitigate water quality*

concerns. *KDHE plans to better promote water quality through the public relations campaign including targeted messages and use of further social media and traditional media outlets.*

- f. Support community efforts to recognize individuals involved in local water quality restoration and protection projects and celebrate local project successes *Update: No work has been done on developing community recognition programs to date.*
 - g. Work with other water resource agencies to establish a recognition program for communities that develop and implement effective water resource management programs, including water quality restoration and protection efforts *Update: County conservation districts annually award conservation recognition rewards to local citizens in the fields of conservation and/or water quality. WRAPS projects are encouraged to participate and work closely with their conservation district in identifying these communities or individuals.*
- B. **2024 Goal:** Enhance collaboration among local, state and federal agencies and private sector organizations addressing NPS pollution.

Objectives

1. Improve program communication and coordination.

Strategies

- a. Continue to actively utilize existing coordination mechanisms, including
 1. Kansas Water Planning Process
 - a. Kansas Water Authority *Update: KDHE and partnering agencies regularly attend the Kansas Water Authority meetings as well as the KWA Budget Committee meetings to provide any needed information regarding NPS program needs and accomplishments.*
 - b. Regional Advisory Committees *Update: KDHE and partnering agencies regularly attend RAC to provide any needed information regarding NPS program needs and accomplishments. KDHE staff regularly attend in RAC areas that include WRAPS Projects and particularly where the RAC has chosen BMP implementation as a basin goal. These areas include the Verdigris, Neosho, Marais des Cynges, Missouri, Kansas, Republican, and Smoky Hill.*
 2. USDA Kansas Technical Committee *Update: KDHE annually attends Kansas Technical Subcommittee and Full KTC meetings in which federal programs providing Kansas agricultural producers funding for BMPs that can address nonpoint sources of pollution are discussed in detail. At the subcommittee meetings, agencies in attendance are given the opportunity to review current ranking and distribution mechanisms used by these programs and provide feedback. KDHE routinely provides feedback regarding how to*

reorganize, score or word the ranking criteria. This feedback generally helps focus federal funds towards BMPs in WRAPS Project high priority areas, and to some extent on pollutant types being addressed. Due to existing program rules, restrictions, and directives, NRCS cannot always accept KDHE recommendations, however, many changes have been made in recent years to NRCS funding ranking criteria that helps directs funding toward NPS Management Plan priorities.

3. *KS-WRAPs Work Group Update: Serving as the advising body for the WRAPS program and comprised of the members of the Kansas Natural Resources Sub-Cabinet and other state and federal agencies, the KS-WRAPs Work Group assures that all Kansas' water resources meet the expectations of all stakeholders by facilitating a collaborative relationship among state, federal, local government and private sector interests so that financial, programmatic and technical assistance resources are directed to the priority water resource needs of Kansas' citizens. On occasion, a subcommittee is necessary to provide guidance on a specific topic. In the past, this has included a Sedimentation Subcommittee, Outreach Subcommittee, Administration Subcommittee and an Evaluation Subcommittee. Changes in learning, knowledge, attitude, skills. As the Work Group and subcommittees continue to refine program guidance, a more streamlined, efficient and structured program will result. Such guidance can help to insure projects are working as effectively and efficiently as possible to achieve the maximum pollutant load reduction in Kansas watersheds with the least amount of financial and technical resources. Collaborative efforts between agencies in implementing various state and federal programs to accomplish mutually beneficial environmental outcomes. Interactions between agency representatives often results in focused fiscal and personnel resources on joint projects that result in greater good. Due to the maturity of the WRAPS Program, the WRAPS Work Group has been meeting less frequently, and is typically conducting business via email concurrence to discuss WRAPS Project updates. There was one meeting during this reporting period that was designated to cover a special topic, the request for proposals applications and funding allocations and was held February 23, 2016.*

During these Work Group sessions, the following accomplishments were completed:

- Supported WRAPS Terrace Policy*
- Reviewed and concurred with annual RFP*
- Reviewed, Approved SFY 17-19 WRAPS Grant Applications and Allocations*
- KDHE Project Officers successfully updated the Work Group on the WRAPS Annual Meeting*

· *Supported the National Water Quality Initiative with NRCS*

- b. Expand opportunities for enhanced collaboration with NPS partner organizations:
1. Enhance the KS-WRAPS Watershed Partnership to facilitate more interaction and dialogue with WRAPS groups and other rural and urban organizations regarding NPS and watershed related issues
Update: KDHE has been able to add a significant new urban partnership through an exciting funding opportunity. Through the Kansas RAC and a Regional Conservation Partnership Program agreement between NRCS and the Kansas Water Office, we have been working much more closely with Johnson County's Water One and are discussing the future relationship of water suppliers and NPS issues upstream. In an effort to reduce the phosphorus loading entering Milford Lake from the Republican River, the Kansas Water Office (KWO) engaged in conversation with a number of groups including state agencies such as the Kansas Department of Health and Environment (KDHE), public water suppliers such as Water District No. 1 of Johnson County (WaterOne) downstream of Milford Lake which are impacted by releases as they travel downstream along the Kansas River, agricultural commodity groups and organizations, county conservation districts, and non-profit organizations.
 2. Establish more direct interaction with state agricultural, urban and environmental organizations on NPS issues and management needs at annual meetings, conferences, etc. Conduct annual WRAPS Meeting to enhance collaboration with existing and potential NPS partners
Update: KDHE has been working to attend more partner events such as the Kansas Agricultural Growth Summit and has been able to expand watershed partnerships to include more interaction with groups including Farm Bureau and the Kansas Corn Growers Association. Additionally, KDHE conducts the WRAPS Annual Meeting, to directly interact with WRAPS Coordinators as well as partners. Typically, the meeting consists of a closed portion to conduct an update of administrative rules and includes discussion between KDHE, WRAPS Coordinators, grant sponsors, and EPA. A second open meeting portion includes an informational brainstorming session with additional partners such as NRCS, KFS, DOA-DOC, KDWPT, KWO, Local CO-OPs, Kansas Corn Growers Association, etc. Discussions include how agencies and private business/organizations alike can work together to address the states NPS pollution challenges.
2. Improve information sharing among existing programs to track the status of NPS program implementation

Strategies

- a. Identify information needs shared by multiple agencies and organizations
Update: KDHE has long used load reduction estimates as a reporting mechanism to EPA and Congress to report on accomplishments of KS' 319 Nonpoint Source Program. Over the past several years, other state agencies have begun to utilize these load reductions as well. Not for program reporting purposes, but for tracking purposes and informational purposes when reporting out to partners and state funding sources. Once this need was recognized as a shared need for the Kansas Water Office, KDHE and DOA-DOC, steps were taken to share data and begin the development of a centralized reporting system.
 - b. Establish a mechanism to efficiently report and share program information among interested parties
Update: DOA-DOC and KWO have developed an online load reduction map that can be used for illustrating WRAPS priority areas/Kansas County Conservation Districts achieved load reductions. More progress needs to be made, however, in the future the hope is that this tool can be used as a sole source to track load reduction progress toward specific TMDLS and other water quality improvement goals for the State of Kansas.
3. Expand funding opportunities for NPS projects through cooperation with other programs and agencies

Strategies

- a. Continue to utilize the Kansas Water Pollution Control Revolving Fund for NPS projects and explore opportunities to expand use of this program in the future.
Update: In FFY 11 and 12 (October 2010-September 2012), the Kansas Water Pollution Control Revolving Fund (KWPCRF), which has traditionally been used for treatment plant upgrades, reserved \$5.1 million of its funding over two years for Green Project loans. The fund issued a Call for Proposals that outlined submission requirements, project eligibility, and applicant qualifications for NPS projects funded through the KWPCRF. Selected projects were notified of the funding award; pre-award meetings were held to outline the loan application process and requirements; and efforts continued to complete loan applications and secure executed loan agreements. A total of 11 projects have been funded since 2011. These projects included streambank stabilization, restoration with riparian/vegetated buffers, pervious pavement with underdrain systems for stormwater storage, and bioretention swales and rain gardens. In 2017 an additional \$1.2M in KWPCRF was loaned to the Kansas Water Office to implement additional streambank stabilization projects in the Tuttle Creek WRAPS Project area. KDHE and partners continue to explore options to utilize KWPCRF for new project types that can address NPS issues in Kansas.

- b. Seek opportunities to collaborate with other agencies and organizations to leverage funding that can accomplish multiple environmental objectives, in addition to NPS pollution control, such as water and energy conservation, wildlife habitat and stormwater/flood management. *Update: KDHE has been working toward developing new collaborative opportunities to leverage funding. These efforts including working on a partnership with FEMA to address flooding issues through NPS BMP implementation, utilizing KDWPT habitat funding to plant cover crops, and contributing to multiple partnerships through NRCS' Regional Conservation Partnership Program (see B.2.e).*

C. 2024 Goal: Develop and implement a strategy to facilitate the management of green infrastructure resources in rural and urban watersheds.

Objectives

- 2. Work with rural and urban partners to enhance the understanding and management of green infrastructure resources in urban and rural watersheds throughout Kansas to enhance water quality protection and achieve other environmental benefits.

Strategies

- a. Continue to utilize the Green Project Reserve component of the Clean Water State Revolving Fund program to fund green infrastructure projects where applicable). *Update: In FFY 11 and 12 (October 2010-September 2012), the Kansas Water Pollution Control Revolving Fund (KWPCRF), which has traditionally been used for treatment plant upgrades, reserved \$5.1 million of its funding over two years for Green Project loans. The fund issued a Call for Proposals that outlined submission requirements, project eligibility, and applicant qualifications for NPS projects funded through the KWPCRF. Selected projects were notified of the funding award; pre-award meetings were held to outline the loan application process and requirements; and efforts continued to complete loan applications and secure executed loan agreements. A total of 11 projects have been funded since 2011. These projects included streambank stabilization, restoration with riparian/vegetated buffers, pervious pavement with underdrain systems for stormwater storage, and bioretention swales and rain gardens.*
- b. Develop an educational program on green infrastructure planning, management and project implementation to increase awareness and understanding of the importance of wetlands, riparian areas and other green infrastructure resources for water quality protection and other environmental benefits. *Update: No progress made to date.*
- c. Work with WRAPS stakeholder leadership teams, Conservation Districts, LEPP groups and RACs to promote green infrastructure and Low Impact Development concepts in their respective communities. *Update: Discussions*

are always ongoing regarding opportunities for promoting green infrastructure projects and ideas in local communities. These ongoing discussions have led to several green infrastructure loans (as discussed above) in local WRAPS project areas including the Tuttle Creek Lake, Delaware, Smoky Hill and Cottonwood.

- d. Conduct a statewide assessment of green infrastructure resources, functions and values. *Update: No progress made to date.*
- e. Prepare a comprehensive strategy for promoting and monitoring protection and management of green infrastructure resources at the state and community level. *Update: No progress made to date.*

D. 2024 Goal: Reduce pollutant loads in high priority TMDL watersheds through the implementation of BMPs and increase the number of water bodies meeting surface water quality standards.

Objectives

- 1. Enhance targeting of state and federal programs that provide technical and financial assistance for the implementation of BMPs to high priority TMDL watersheds.

Strategies

- a. Utilize the Kansas Water Planning process to provide guidance to State Water Plan funded programs to enhance targeting of TMDL high priority watersheds and critical restoration subwatersheds identified in WRAPS plans. *Working through the State Water Plan Process multi-agency coordination has been accomplished in a variety of ways. Though funding has been reduced in recent years for nonpoint source pollution control programs administered by DOA-DOC and KDHE, progress has been made toward restoring this funding and/or creating new funding categories in the State Water Plan Fund that can be utilized to address nonpoint source pollution issues in Kansas. Through years of collaboration between state agencies and informing the Kansas Water Authority of the importance of nonpoint source issues, funding from the State Water Plan has been directed toward the KS WRAPS Program, the Interagency Streambank Coordination Team, and the Interagency BMP Implementation Team. In SFY 18, \$1,000,000 in State Water Plan funds were awarded to the Interagency Streambank Coordination Team to reduce sedimentation in Federal Reservoirs through streambank stabilization and riparian area restoration projects. This funding as well as other supplemental funding is always used to implement sediment reducing streambank projects in WRAPS priority areas. Additionally, in SFY 19, the Kansas WRAPS Program was awarded restorative funding through the State Water Plan fund and the Interagency BMP Implementation Team was awarded \$900,000 for the implementation of sediment reducing BMPs in WRAPS priority watersheds.*
- b. Actively participate on the Kansas Technical Committee and water quality related subcommittees to establish program priorities and ranking criteria that target applicable federal water quality programs to high priority TMDL

watersheds and critical restoration subwatersheds identified in WRAPS plans. *KDHE annually attends Kansas Technical Subcommittee and Full KTC meetings in which federal programs providing Kansas agricultural producers funding for BMPs that can address nonpoint sources of pollution are discussed in detail. At the subcommittee meetings, agencies in attendance are given the opportunity to review current ranking and distribution mechanisms used by these programs and provide feedback. KDHE routinely provides feedback regarding how to reorganize, score or word the ranking criteria. This feedback generally helps focus federal funds towards BMPs in WRAPS Project high priority areas, and to some extent on pollutant types being addressed. Due to existing program rules, restrictions, and directives, NRCS cannot always accept KDHE recommendations, however, many changes have been made in recent years to NRCS funding ranking criteria that helps directs funding toward NPS Management Plan and WRAPS 9 Element plan priorities.*

- c. Utilize the KS-WRAPS Work Group and Watershed Partnership to enhance program coordination to address TMDL priorities through applicable state programs. *Update: At KS-WRAPS Work Group meetings, all agencies in attendance are asked to provide program updates of interest to the Work Group. The KDHE Watershed Planning and Assessment section, responsible for Kansas TMDL development is in attendance and provides section TMDL development updates. Often these updates result in discussions as to how data collected by other agencies can be utilized in TMDL monitoring and implementation efforts. In 2011, a partnership was created between DOA-DOC and KDHE Watershed Management section to utilize the DOC TMDL implementation program to better address Kansas TMDL priorities (D.1.f.)*
- d. Support the implementation of WRAPS projects that address high priority TMDL watersheds. *KDHE utilizes a matrix to determine funding to WRAPS projects. The matrix evaluates the projects both on state priority and implementation history. The state priority score allows KDHE to ensure that funds address water quality issues in the highest priority TMDL watersheds. In the fall of 2013 and the fall of 2017, KDHE held request for proposals from all active WRAPS projects to determine funding for three-year grants for each respective request for proposals. For SFY2014-2016 period, KDHE allocated an average of \$2,566,984 for each year of the three-year grant. For SFY2017-2019, an average of \$2,710,701 was allocated each year for the three-year grant. Both request for proposals emphasized funding to the highest priority watersheds addressing high priority TMDLs. KDHE has begun to prepare for the next request for proposals.*
- e. Develop an inventory of NPS BMP needs in high priority TMDL and WRAPS watersheds and high value protection watersheds. *KDHE has begun a Watershed Aerial Assessment program that we believe can be useful in a number of different ways. The purpose of the Watershed Aerial Assessment is to identify potential sources of sediment and nutrients entering streams in WRAPS targeted HUC 12s and could be addressed by the implementation of*

Best Management Practices (BMPs). To accomplish this we have developed a Webmapper to utilize the section's professional knowledge without the need for advanced GIS skills. The Webmapper allows us to mark "areas of interest" for further follow up based on what we can see on an aerial image. Those "areas" are saved in an underlying ArcMap layer used for mapping and summary statistics that are provided to local watershed groups. The assessments are used to better understand the need for each practice type in each HUC 12 and help inform decision making on targeting particular HUC 12s. The individual identified areas are provided to watershed coordinators as a tool for watershed outreach and project development. Conventional wisdom is a driving force in conservation currently, so having high resolution images to show stakeholders helps gain understanding of new and emerging practice types. Having a current idea of what needs each HUC 12 has for BMP implementation is very valuable allows all involved to understand and implement practices to achieve the goals of each watershed plan. To date, KDHE has performed aerial assessments on 139 HUC 12 Watersheds in 14 WRAPS projects areas that have identified 7,801 areas of interest. Additionally, DOA-DOC has recently moved to request that Conservation Districts input all applications for state cost share programs, not just those funded. This will give an actual list of BMPs needed in individual counties that were not funded due to limited funds. This inventory will be utilized as state agencies continue to focus on our NPS needs through the State Water Planning Funding process.

- f. *Support targeted TMDL implementation efforts through Conservation District, LEPP, and other applicable programs. Update: DOA-DOC and KDHE formed a partnership that focuses DOC TMDL funding on high priority TMDLs in WRAPS priority areas. In the past, DOC TMDL funding has been distributed to counties that have a high priority TMDL, this method, however, spread limited available funding too thin to maximize potential water quality improvements. In 2011, KDHE and DOA-DOC began discussions surrounding focusing these funds on a few HUC 12 level watersheds that have a high priority TMDL, a WRAPS Project and a good working relationship between the Conservation District and WRAPS Coordinator. Currently, DOC TMDL funding is being divided among the following HUC 12 watersheds:*

Milford Lake RCPP Match (Funds used in Tier 1 priority areas within the Milford Lake Watershed, Milford WRAPS)

Peats Creek HUC 102500170501, 102500170502 in Washington and Clay Counties (Milford WRAPS)

110-Mile Creek HUC 102901010207 in Osage County (Pomona WRAPS)

Twin Lakes HUC 110702010102 in Morris County (Twin Lakes WRAPS)

Coal Creek HUC 110702030406 in Lyon County (Cottonwood WRAPS)

Labette Creek HUC 110702050401, 110702050403, 110702050404, 110702050501 and 110702050505 in Labette and Neosho Counties (Middle Neosho WRAPS)

Banner Creek in HUC 102701030305 in Jackson County (Delaware WRAPS).

2. Work with WRAPS SLTs to ensure that existing WRAPS Projects address high priority TMDLs.

Strategies

- a. Provide technical and financial resources to WRAPS projects that address high priority TMDLs. *KDHE utilizes a matrix to determine funding to WRAPS projects. The matrix evaluates the projects both on state priority and implementation history. The state priority score allows KDHE to ensure that funds address water quality issues in the highest priority TMDL watersheds. In the fall of 2013 and the fall of 2017, KDHE held request for proposals from all active WRAPS projects to determine funding for three-year grants for each respective request for proposals. For SFY2014-2016 period, KDHE allocated an average of \$2,566,984 for each year of the three-year grant. For SFY2017-2019, an average of \$2,710,701 was allocated each year for the three-year grant. Both request for proposals emphasized funding to the highest priority watersheds addressing high priority TMDLs. Approximately 17 percent and 10 percent for SFY14-16 and SFY17-19 request for proposals respectively was utilized for technical assistance from organizations such as Kansas Forest Service, Kansas State University, and other service providers. WRAPS projects receive additional technical assistance from partnerships with the Natural Resources Conservation Service (NRCS), local conservation districts, and the Kansas Department of Agriculture – Division of Conservation. Additional resources for high priority TMDLs have been provided through the Kansas State Water Plan, Regional Conservation Partnership Programs (RCPP), National Water Quality Initiative (NWQI), and through the 50 Year Vision for the Future of Water in Kansas.*
- b. Provide technical and financial resources to WRAPS projects for implementation of BMPs as outlined in 9 element watershed plans. *(See D.2.a)*

- E. **2024 Goal:** Reduce pollutant loads in state priority watersheds through targeted implementation of BMPs identified in WRAPS 9 element watershed plans.

Objective

1. Work with WRAPS SLTs to maintain, update, and implement 9-element watershed plans for WRAPS projects to facilitate BMP implementation in high priority TMDL watersheds and restore impaired waters.

Strategies

- a. Maintain and monitor 9-element watershed plan implementation for WRAPS watersheds that target implementation of BMPs to high priority TMDL watersheds and other priority water quality restoration and protection needs.
 - i. Provide guidance to WRAPS groups on meeting the 9-element requirements. Update: *Substantial guidance was created by KDHE to*

assist each WRAPS group in completing an approvable 9 Element Watershed Plan. Presentations and training sessions were provided to WRAPS Coordinators, as well as checklists helping to interpret, develop and site each of the 9 Elements within the plan. Additionally, KDHE entered into a technical assistance agreement with Kansas State University, Office of Local Government for plan development assistance. This technical assistance agreement helped KDHE and our 319 funded WRAPS projects complete approved 9 Element Watershed Plans for over half of our Kansas WRAPS projects.

- ii. Integrate WRAPS project implementation with TMDL planning and evaluation. *Update: Efforts have been made to integrate the planning and evaluation process through increased communication. KDHE staff from the Watershed Planning, Monitoring and Assessment Section (WPMAS) routinely meet with Watershed Management Section staff to discuss watersheds where significant BMP implementation has occurred. WPMAS can review monitoring data when necessary to measure water quality improvements. Additionally, upon the development of new TMDLs, WMS staff are given an opportunity to review and add content to the TMDL regarding implementation efforts. Through this opportunity, WMS generally add detailed implementation information from 9 Element Watershed Plans.*
- iii. Provide technical support where needed to update existing 9-Element Watershed plans. *Update: KDHE has begun revising their WMPs and has a schedule they believe they can adhere to over the next 4-5 years. During this reporting period two plans have been completely revised and are in the stage of final review. Two other plans are in the process of being revised to include new TMDL information, a new targeting approach, data tables, milestones, etc. KDHE WMS Staff have recently entered into an agreement with Kansas State University to provide additional technical support to our staff as well as WRAPS Coordinators to complete the revision process.*
- iv. Ensure all new WRAPS watershed plans that address impaired waters meet EPA's 9 required elements *Update: All WRAPS watershed plans include EPA's 9 Elements. The planning process for the WRAPS Program occurred between 2009 and 2013.*
- v. Continue to build organizational capacity of WRAPS groups through workshops, coordinator professional development and other capacity-building mechanisms *Update: From 2010-2015, capacity building forums were developed and held twice per year ranging in topics from selling agricultural practices and relationship building to understanding watershed science and emerging strategies to improve water quality. The Kansas Association for Conservation and Environmental Education (KACEE) was contracted by KDHE to facilitate the capacity building process. In 2016, KDHE and KACEE re-evaluated the capacity building strategy and determined that the "one size fits all" method was not the most efficient strategy to build*

capacity of WRAPS coordinators and SLT members. A new professional development strategy was developed by KACEE with input from WRAPS projects, partners, and KDHE. Core capacities were developed to determine what a WRAPS project would need to be proficient at to implement the watershed plan. In 2017, an online forum and learning module was created to assist WRAPS project with furthering their professional development in the field. A three year strategy was developed to plan the implementation of each capacity and provide the resources in various formats for the WRAPS projects.

- vi. Target technical and financial assistance to implement BMPs in priority subwatersheds identified in 9-element watershed plans. *Update: KDHE Watershed Management Section utilizes a scoring matrix developed by KDHE and the WRAPS Work Group that includes a variety of factors that generate a State Interest Priority Score as well as an Implementation Score. In the State Interest Priority Score each WRAPS project is awarded points for factors such as the number of High Priority TMDLs, Federal Reservoirs, Public Water Supplies, etc. in the WRAPS Project area. In the Implementation Score, points are awarded to WRAPS projects based on project performance factors such as timeliness of funding spent, percent of annual load reduction goal achieved, leveraging of additional funding, etc. The combination of the State score and Implementation score creates an overall score value. WRAPS project scores are compared to one another to create an overall ranking list of projects from highest to lowest priority. Each year WRAPS projects are given a score card that illustrates performance from the previous year. During each three-year funding cycle, annual scores are used to calculate a formal ranking score for each project, and those with higher-ranking scores are eligible for higher funding amounts, thus ensuring WRAPS funding is being focused on the highest priority projects.*
- vii. Enhance funding through the State Water Planning Process for WRAPS BMP implementation projects in high priority subwatersheds identified in WRAPS plans. *Update: Working through the State Water Plan Process multi-agency coordination has been accomplished in a variety of ways. Though funding has been reduced in recent years for nonpoint source pollution control programs administered by DOA-DOC and KDHE, progress has been made toward restoring this funding and/or creating new funding categories in the State Water Plan Fund that can be utilized to address nonpoint source pollution issues in Kansas. In SFY 19, the Kansas WRAPS Program was awarded restorative funding through the State Water Plan fund and the Interagency BMP Implementation Team was awarded \$900,000 for the implementation of sediment reducing BMPs in priority watersheds.*
- viii. Track progress of water quality improvements in priority subwatersheds through targeted monitoring programs for WRAPS watersheds. *Update: The Kansas Subwatershed Water Quality Monitoring Program (SWMP)*

was established in 2010 as a cooperative effort between KDHE's Watershed Management Section and stream monitoring programs of the Watershed Planning, Monitoring and Assessment Section (KDHE 2014). It is a cross-program initiative staffed by personnel from pre-existing long-term monitoring programs. 36 The SWMP employs a water quality monitoring strategy that assesses nonpoint pollution on a subwatershed scale and was designed to track water quality improvement in selected HUC-12 subwatersheds over time. Monitoring efforts target specific Kansas watersheds that have active Watershed Restoration and Protection Strategy (WRAPS) project areas. All the WRAPS projects have detailed plans to address water quality impairments associated with nonpoint source pollutants identified in Total Maximum Daily Load (TMDL) evaluations. The WRAPS plans strategically target particular geographic areas for implementation of agricultural BMPs, which are designed specifically to address nonpoint source pollutants related to TMDLs. From 2010 to 2015, the SWMP completed five years of monitoring to establish a water quality baseline for the first set of fifteen subwatersheds. The next set of nine subwatersheds has been selected, and monitoring on those sites began in 2016 and is scheduled through 2020. The baseline water quality data obtained from these subwatersheds will be compared to future monitoring data, in order to document load reductions attributable to the implementation of Best Management Practices.

- ix. *Celebrate Success Stories in watersheds where impaired waters have been restored or improved. Update: In 2010, Banner Creek Reservoir and Clarks Creek experienced successes in water quality. Events were planned at the sites to celebrate the stories. Since then numerous water segments have been delisted from the state's 303(d) list of impaired waters. These include Allen Creek – bacteria, Big Creek – bacteria, Cottonwood River – E.coli, Dagoon Creek – dissolved oxygen, Eagle Creek – dissolved oxygen, Fall River – dissolved oxygen, Mill Creek – bacteria, Neosho River – bacteria, and Walnut/West Creeks – dissolved oxygen. Success stories have been published for each of the delistings as well as presented at informational booths at various events around the state discussing water resource issues.*
- b. *Continue to implement WRAPS scoring matrix to ensure that the highest priority watershed projects are being addressed with available technical and financial resources. Update: KDHE Watershed Management Section utilizes a scoring matrix developed by KDHE and the WRAPS Work Group that includes a variety of factors that generate a State Interest Priority Score as well as an Implementation Score. In the State Interest Priority Score each WRAPS project is awarded points for factors such as the number of High Priority TMDLs, Federal Reservoirs, Public Water Supplies, etc. in the WRAPS Project area. In the Implementation Score, points are awarded to WRAPS projects based on project performance factors such as timeliness of funding spent, percent of annual load reduction goal achieved, leveraging of additional funding, etc. The*

combination of the State score and Implementation score creates an overall score value. WRAPS project scores are compared to one another to create an overall ranking list of projects from highest to lowest priority. Each year WRAPS projects are given a score card that illustrates performance from the previous year. During each three-year funding cycle, annual scores are used to calculate a formal ranking score for each project, and those with higher-ranking scores are eligible for higher funding amounts, thus ensuring WRAPS funding is being focused on the highest priority projects.

- c. Encourage WRAPS stakeholder leadership teams to address source water and wellhead protection, habitat restoration and protection, urban stormwater and other watershed management concerns where applicable through collaborative, inter-jurisdictional watershed planning and coordination. *Update: No progress made to date. While WRAPS Projects are encouraged to address other local issues within their 9 Element Watershed plans, KDHE has maintained a focus on delisting high priority TMDLs.*

Protection

- F. **2024 Goal:** Target the implementation of BMPs in urban and rural watersheds to prevent the occurrence of pollution problems affecting high quality water bodies and watersheds to avoid future impairment of state waters.

Objectives

1. Protect high value water bodies identified as Exceptional State Waters, Outstanding National Resources Waters and Special Aquatic Life Waters in the Kansas Surface Water Quality Standards.
2. Protect high priority wetland and riparian areas and other high value watershed resources, including water quality reference streams, in priority restoration and protection watersheds.

Strategies

- a. Work with WRAPS groups and other organizations to implement a Healthy Watershed Initiative Grant to explore opportunities and mechanisms to protect high value watersheds. *Update: No progress made to date.*
- b. Continue interagency support for wetland and riparian area protection including inventory, assessment, prioritization and planning projects through EPA's Wetland Development Grants and other funding programs. *Update: KDHE has provided support for several Wetland Development grant applications and awards through the Kansas Water Office that include inventory and assessment activities related to wetlands in high priority watersheds in Kansas.*
- c. Work with WRAPS projects to incorporate protection of high value water bodies and wetland and riparian resources in 9 element watershed plans. *Update: No progress made to date.*
- d. Work with agencies and stakeholder groups to implement the wetland and riparian protection policy subsection of the *Kansas Water Plan* including the

identification of priority wetland and riparian areas. *Update: No progress made to date.*

- e. Develop a state strategy for protection of high value watersheds through the State Water Planning Process. *Update: No progress made to date.*
- G. **2024 Goal:** Implement statewide pollutant-specific strategies to reduce sediment and nutrients originating from nonpoint sources of pollution.

Objectives

1. Achieve reductions in total nitrogen and total phosphorus loads in priority water bodies as outlined in the *Kansas Surface Water Nutrient Reduction Plan*.
2. Reduce sediment loading to streams in priority watersheds to address high priority TMDLs and reduce sediment loading in public water supply reservoirs.

Strategies

- a. Develop and implement pollutant specific strategies for sediment and nutrients to restore impaired waters and protect public water supplies through the Kansas Water Planning Process
 - i. Utilize the goals and approach outlined in the *Kansas Surface Water Nutrient Reduction Plan* to guide the implementation of BMPs that address nutrients contributed from nonpoint sources *Update: WRAPS Program Update: A prioritized list of priority watersheds has been established per this NPS Management and as listed in the Kansas Surface Water Nutrient Reduction Framework. They are as follows:*
 - Lower Republican*
 - Big Creek*
 - Lower Smoky Hill*
 - Middle Kansas*
 - Delaware*
 - Lower Kansas*
 - Lower Big Blue*
 - Upper Marais des Cygnes*
 - Little Arkansas*
 - Upper Walnut*
 - Lower Walnut*
 - Neosho Headwaters*
 - Upper Neosho*
 - Middle Neosho*
 - Spring*
 - Middle Arkansas-Slate*

Many of these priority watersheds are an already designated WRAPS project area and have completed a stakeholder development phase, assessment and planning phase and are well underway in the implementation phase in which nutrient, sediment and bacteria

issues have been identified and detailed action plans for addressing those issues is being carried out.

- ii. Work collaboratively with agencies and stakeholder groups in Kansas and in neighboring states to facilitate implementation of the strategies developed. *Update: Agencies are continuously working collaboratively with one another to address NPS issues in Kansas. The outcomes of these collaborative efforts are detailed in G.2.b., integrating pollutant-specific strategies with ongoing programs including the KDHE WRAPS/319 program, DOA - DOC cost-share programs, NRCS EQIP and other applicable programs to facilitate implementation.*
 - iii. Work collaboratively with the agencies involved in the *Kansas Water Plan Reservoir Sustainability Initiative, Reservoir Roadmap and Sediment Baseline Study* to develop and implement sediment management strategies in priority reservoir watersheds. *Update: In SFY 18, \$1,000,000 in State Water Plan funds were awarded to the Interagency Streambank Coordination Team to reduce sedimentation in several high priority Federal Reservoirs through streambank stabilization and riparian area restoration projects. Additionally, \$500,000 was awarded from SWPF in SFY19. This funding as well as other supplemental funding is always used to implement sediment reducing streambank projects in WRAPS priority areas. This was supplemental funding to the team which has utilized more than \$5M through pooled funding as well as multiple state and federal funding sources in the past 4 years to complete projects.*
- b. Integrate pollutant-specific strategies with ongoing programs including the KDHE WRAPS/319 program, DOA - DOC cost-share programs, NRCS EQIP and other applicable programs to facilitate implementation. *Update: In SFY 19, the Kansas WRAPS Program was awarded restorative funding through the State Water Plan fund and the Interagency BMP Implementation Team was awarded \$900,000 for the implementation of sediment reducing BMPs in WRAPS priority watersheds. DOA-DOC and KDHE formed a partnership that focuses DOC TMDL funding on high priority TMDLs in WRAPS priority areas. In the past, DOC TMDL funding has been distributed to counties that have a high priority TMDL, this method, however, spread limited available funding too thin to maximize potential water quality improvements. In 2011, KDHE and DOA-DOC began discussions surrounding focusing these funds on a few HUC 12 level watersheds that have a high priority TMDL, a WRAPS Project and a good working relationship between the Conservation District and WRAPS Coordinator. Currently, DOC TMDL funding is being divided among the following HUC 12 watersheds:*
- Milford Lake RCPP Match (Funds used in Tier 1 priority areas within the Milford Lake Watershed, Milford WRAPS)*
 - Peats Creek HUC 102500170501, 102500170502 in Washington and Clay Counties (Milford WRAPS)*

*110-Mile Creek HUC 102901010207 in Osage County (Pomona WRAPS)
 Twin Lakes HUC 110702010102 in Morris County (Twin Lakes WRAPS)
 Coal Creek HUC 110702030406 in Lyon County (Cottonwood WRAPS)
 Labette Creek HUC 110702050401, 110702050403, 110702050404,
 110702050501 and 110702050505 in Labette and Neosho Counties
 (Middle Neosho WRAPS)
 Banner Creek in HUC 102701030305 in Jackson County (Delaware
 WRAPS). Additionally, KDHE has partnered on several RCPP projects in
 Kansas that help us achieve goals within the KS NPS Management Plan
 and the Kansas WRAPS Program. These include: Improving Water Quality
 Through the Implementation of Forestry Practices and the Assessment of
 Riparian Systems in Kansas' Priority Watersheds (Lead Partner: Kansas
 State University—Kansas Forest Service). Surface water reservoirs in
 Kansas have lost 40 percent of their storage capacity and waterways are
 experiencing stream bank erosion. By implementing forestry best
 management practices on 25,000 acres and creating a protection
 framework for remaining riparian forests in ten high-priority watersheds,
 this project will help sustain reservoir storage and wildlife habitat, improve
 the drinking water supply, and increase recreation opportunities. This
 project also supports the outcomes outlined in the Governor's Vision for
 the Future of Water in Kansas by sustaining and creating forest riparian
 conservation near Kansas streams. KDHE's partnership in this project is
 limited to WRAPS Project areas and has focused on those 9 Element
 WRAPS Plans whose goals are to improve TMDLs related to the BMPs
 eligible in this RCPP. Middle and Lower Neosho River Water Quality
 Project (Lead partner: Kansas Department of Agriculture Division of
 Conservation). KDHE's partnership in this project is limited to WRAPS
 Project targeted areas and the 9 Element WRAPS Plan identifies nutrient
 reduction as main goal related to the BMPs eligible in this RCPP. Milford
 Lake Watershed Project (Lead partner: Kansas Water Office). Phosphorus
 loading from the Lower Republican River Watershed is one of the
 contributing factors leading to the formation of HABs in Milford Lake. In
 an effort to reduce the phosphorus loading entering Milford Lake from the
 Republican River, the Kansas Water Office (KWO) engaged in
 conversation with a number of groups including state agencies such as the
 Kansas Department of Health and Environment (KDHE), public water
 suppliers such as Water District No. 1 of Johnson County (WaterOne)
 downstream of Milford Lake which are impacted by releases as they travel
 downstream along the Kansas River, agricultural commodity groups and
 organizations, county conservation districts, and non-profit organizations.
 In strong coordination with KDHE, KWO has chosen target areas and
 eligible BMP types associated with the Milford WRAPS 9 Element
 watershed plan. KDHE has also been able to integrate a new national
 initiative to address pollutant specific issues. The National Water Quality*

Initiative is a partnership among NRCS, state water quality agencies and the U.S. Environmental Protection Agency (EPA) to identify and address impaired water bodies through voluntary conservation. NRCS provides targeted funding for financial and technical assistance in small watersheds most in need and where farmers can use conservation practices to make a difference.

Conservation systems include practices that promote soil health, reduce erosion and lessen nutrient runoff, such as filter strips, cover crops, reduced tillage and manure management. These practices not only benefit natural resources but enhance agricultural productivity and profitability by improving soil health and optimizing the use of agricultural inputs.

State water quality agencies and other partners contribute additional resources for watershed planning, implementation and outreach. They also provide resources for monitoring efforts that help track water quality improvements over time.

- H. **2024 Goal:** Increase protection of public water supply sources through the implementation of Drinking Water Protection plans, either as an integrated part of a WRAPS watershed plan or an independent Drinking Water Protection plan.

Objectives

1. Work with local public water suppliers to complete and initiate implementation of Drinking Water Protection plans.

Strategies

- a. Work cooperatively with the DWP Technical Team and other organizations to provide planning support and technical assistance to KDHE to develop Drinking Water Protection plans. *Update: Drinking Water Protection – The program purpose is to insure all Kansas communities have a source of clean, healthy, affordable drinking water by planning and implementing strategies to prevent and mitigate contamination. Public Water Supplies (PWS) systems that show trends in increased nitrate or have occasionally violated the maximum contaminant level will be the focus of the DWP program. KDHE has made significant progress in implementing this program, a full time Geology Specialist has been hired, pilot communities have been identified and an oversight technical team has been formed. The Technical Team has held one meeting to date to discuss program methodology, potential pilot communities, and expectations moving forward. Next steps include contacting pilot communities, completing groundwater assessments, completing remediation plans for groundwater contamination and implementation of those plans. The Technical Team will be utilized to provide technical assistance as we move through the phases of program development.*
- b. Enhance outreach to public water suppliers to actively participate in applicable WRAPS projects or develop a Drinking Water Protection plan if supply is not addressed through a WRAPS project. *Update: No progress*

made to date. The movement forward with the DWPP will likely help us achieve progress toward this goal prior to the next update.

- c. Work with WRAPS projects to facilitate Drinking Water Protection plan development and implementation within WRAPS watersheds. *Update: No progress made to date. The movement forward with the DWPP will likely help us achieve progress toward this goal prior to the next update.*
2. Demonstrate progress in implementation of all approved Drinking Water Protection plans.

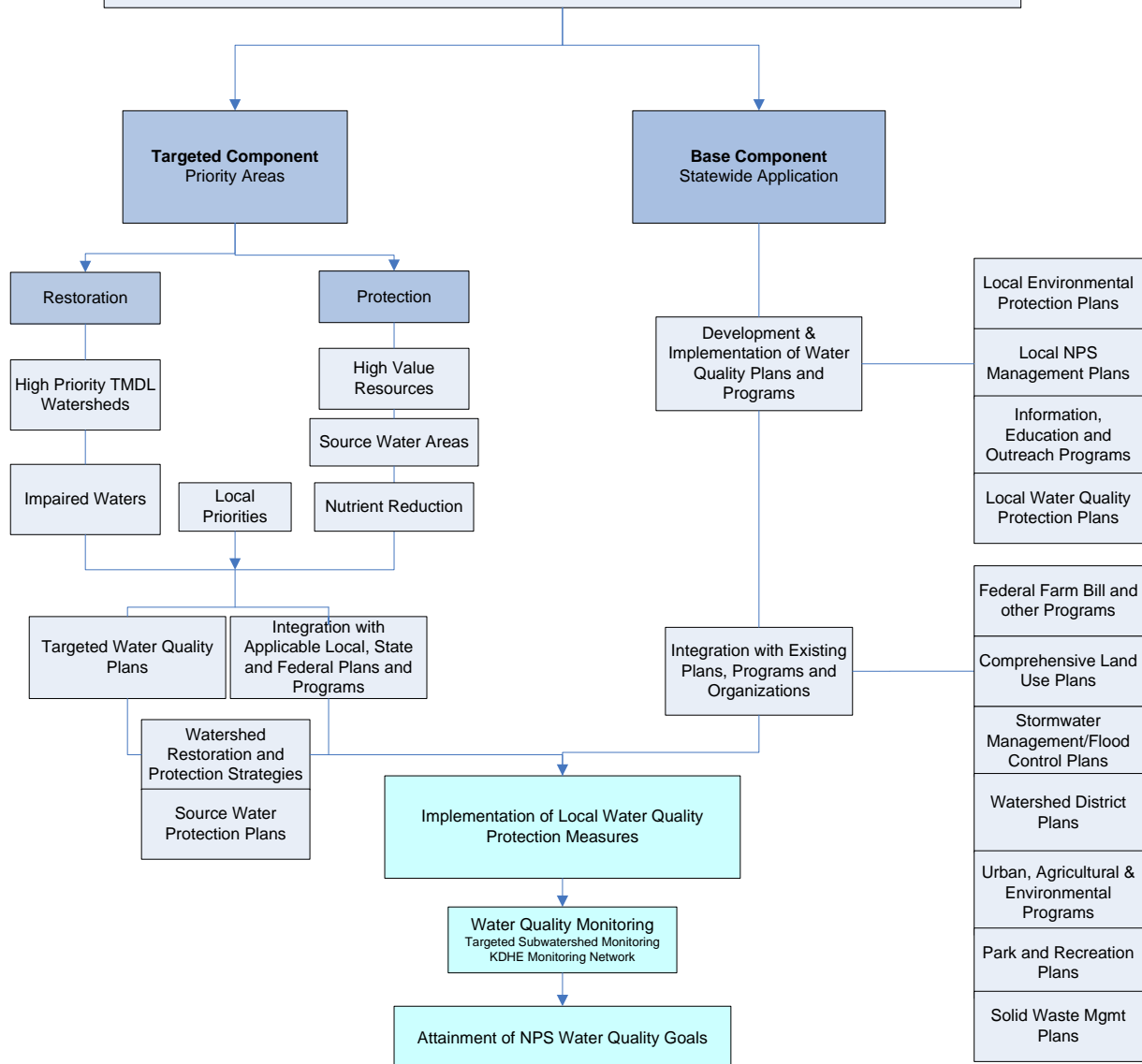
Strategies

- a. Develop and maintain a system to effectively track progress in plan implementation. *Update: No progress made to date. The movement forward with the DWPP will likely help us achieve progress toward this goal prior to the next update.*
- b. Work with the KDHE Public Water Supply Section's Capacity Development Program and other entities to explore potential funding opportunities for enhanced implementation of approved Drinking Water Protection plans. *Update: No progress made to date. The movement forward with the DWPP will likely help us achieve progress toward this goal prior to the next update.*

Figure 3.1
Kansas Nonpoint Source Pollution Management Strategy
2010

Long Term Goals

1. *No lake, stream or wetland has a violation of Kansas Water Quality Standards due to nonpoint sources of pollutants.*
2. *Kansas surface and ground water are protected from all nonpoint pollutant sources through the use of recommended water quality protection measures.*
3. *By 2015, support achievement of the Kansas Water Plan water quality objectives:*
 - a. *Reduce the levels of bacteria, biochemical oxygen demand, dissolved solids, metals, nutrients, pesticides and sediment that adversely affect the water quality of Kansas lakes and streams.*
 - b. *Reduce the levels of dissolved solids, metals, nitrates, pesticides and volatile organic chemicals that adversely affect the quality of Kansas groundwater.*
 - c. *Maintain water quality conditions at a level equal to or better than conditions seen in the past.*



APPENDIX EIGHT

Acronyms

ARRA – American Recovery and Reinvestment Act
BEFS – Bureau of Environmental Field Services
BMP – Best Management Practice
BOW – Bureau of Water
CRP – Conservation Reserve Program
CWA – Clean Water Act
CSIMS – Cost-Share and Information Management System
DO – Dissolved Oxygen
DOC – Division of Conservation
DWP – Drinking Water Protection
EPA – Environmental Protection Agency
EQIP – Environmental Water Quality Incentives Programs
FFY – Federal Fiscal Year
FSA – Farm Service Agency
GRTS – Grant Reporting and Tracking System
HUC – Hydrologic Unit Code
KCARE – Kansas Center for Agricultural Resources and the Environment
KCW – Kansas Clean Water
KDHE – Kansas Department of Health & Environment
KDWP – Kansas Department of Wildlife and Parks
KSU – Kansas State University
KWA – Kansas Water Authority
KWO – Kansas Water Office
KWRI – Kansas Water Resources Institute
LEPP – Local Environmental Protection Program
NGO – Non-Governmental Organizations
NHD – National Hydrography Dataset
NPDES – National Pollutant Discharge Elimination System
NPS – Nonpoint Source
NRCS – National Resources Conservation Service
NRI – National Resources Inventory
RAC – Regional Advisory Committee
RC&D – Resource Conservation & Development
SCC – State Conservation Commission
SFY – State Fiscal Year
SLT – Stakeholder Leadership Team
SWA – Source Water Assessment
SWP – Source Water Protection
SWPP – Source Water Protection Plan
TMDL – Total Maximum Daily Load
TN – Total Nitrogen
TP – Total Phosphorus
TSS – Total Suspended Solids
USDA – United States Department of Agriculture
USGS – United States Geological Survey
WMS – Watershed Management Section
WRAPS – Watershed Restoration and Protection Strategy